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ROMIL
PURE CHEMISTRY

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Plot No 39 1st Floor Lavanya Aracade Jayabheri Enclave
Gachibowli Hyderabad-500032.Telangana
Mob : +91 99082 46685 Tel : 040 - 35172288/89

info@rikiglobal.com www.rikiglobal.com +91-9908246695 +91-40-35172288/89

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ROMIL-SpS™ Super Purity Solvents Specifications

high purity solvents for instrumental analysis

Acetic Acid glacial (see Acetic Acid)

2-Aminoethanol (see Ethanolamine)

Acetic Acid SpS

H014

500ml H014P
1LT H014M
2½LT H014L
Dgr H:226-314
P:280c-301+330+331-305+351+338-307+310

(Acetic Acid glacial)
CH3COOH MW 60.05 FP 16.7°C BP 117.9°C d 1.05 CAS [64-19-7]
Assay >99.8% Water <0.1% Residue <0.0001%
UV: 252nm >10%; 260nm >50%; 270nm >80%; 280nm >95%; 300-400nm >99%
Application: Non-aqueous Titrations, Organic Trace Analysis (see also ROMIL Code H015 Acetic Acid SpA for inorganic trace analysis)

Acetic Anhydride SpS

H027

500ml H027P
1LT H027M
2½LT H027L
Dgr H:226-302+332-314-335
P:210-280-301+330+331-305+351+338-317

(CH3CO)2O MW102.09FP-74°CBP 139°C d 1.08 CAS [108-24-7]
Assay >99% Residue <0.0001%
Acetic Acid <1%
Application: Molecular Biology

Acetone SpS

H031

500ml H031P
1LT H031M
2½LT H031L
Dgr H:225-319-336-EUH066
P:210-233-305+351+338

(Propanone)
(CH3)2CO MW 58.08 BP 56.1°C d 0.79 CAS [67-64-1]
Assay >99.9% Water <0.2% Residue <0.0001%
UV: 329nm >10%; 335nm >50%; 340nm >80%; 345nm >95%; 350-400nm >99%
Pesticide Residue Analysis passes test
Application: HPLC, GC (eg, analysis of chlorohydrocarbons), UV, Environment Analysis (eg, pesticide residues)

Acetone SpS
low in methanol

H032

2½LT H032L
Dgr H:225-319-336-EUH066
P:210-233-305+351+338

(Propanone)
(CH3)2CO MW 58.08 BP 56.1°C d 0.79 CAS [67-64-1]
Assay >99.9% Water <0.2% Residue <0.0001%
Methanol <10 ppm
Application:GC,Applicationsrequiring low methanol background

Acetonitrile 200 SpS
far UV

H048

500ml H048P
1LT H048M
2½LT H048L
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+233

(Methyl Cyanide)
CH3CNMW 41.05 BP 81.6°C d 0.78 CAS [75-05-8]
Assay >99.9% Water <0.01% Residue <0.0001%
UV: 190nm >10%; 195nm >50%; 200nm >80%; 225nm >95%; 240-400nm >99%
Pesticide Residue Analysis passes test
Application: HPLC, Environment Analysis (eg, pesticide residues)

Acetonitrile 190 SpS
far UV/gradient quality

H049

500ml H049P
1LT H049M
2½LT H049L
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+233

(Methyl Cyanide)
CH3CN MW 41.05 BP 81.6°C d 0.78 CAS [75-05-8]
Assay >99.9% Water <0.005% Residue <0.0001%
UV: 190nm >18%; 193nm >50%; 197nm >80%; 215nm >95%; 230-400nm >99%
Acidity <0.0005 meq/g
Alkalinity <0.00006 meq/g
HPLC Gradient Use Test:
205nm <0.005 AU
254nm <0.002 AU
Conforms to ACS liquid chromatography suitability.
Pesticide Residue Analysis passes test
IR Spectroscopy passes test
Fluorescence Spectroscopy passes test
Application: Gradient HPLC, GC, UV, IR, Environment Analysis (eg, pesticide residues), Molecular Biology (see also ROMIL Codes H051, H053, H055
Acetonitrile BiO very dry), Ion Chromatography using coulometric detection, Fluorescence Spectroscopy

ROMIL-SpS™ Super Purity Solvents Specifications

high purity solvents for instrumental analysis

2-Butanone (see Methyl Ethyl Ketone)

n-Butyl Chloride (see 1-Chlorobutane)

tert-Butyl Methyl Ether (see Methyl tert-Butyl Ether)

Butan-1-ol SpS *H083*

500ml H083P
1LT H083M
2½LT H083L
Dgr H:226-302-315-318-335-336
P:210-280f-302+352-304+340-305+351+338-313

(n-Butanol, n-Butyl Alcohol)

CH3(CH2)3OH MW 74.12 BP 117.7°C d 0.81 CAS [71-36-3]
Assay >99.8% Water <0.05% Residue <0.0001%
UV: 230nm >10%; 235nm >50%; 240nm >80%; 270nm >95%; 290-400nm >99%

n-Butyl Acetate SpS *H087*

500ml H087P
1LT H087M
2½LT H087L
Wng H:226-336-EUH066
P:210

CH3COO(CH2)3CH3 MW 116.16 BP 126.1°C d 0.88 CAS [123-86-4]
Assay >99.7% Water <0.05% Residue <0.0001%
UV: 257nm >10%; 260nm >50%; 275nm >80%; 310nm >95%; 360-400nm >99%

Carbon Disulphide SpS

low in benzene *H095*

500ml H095P
Dgr H:225-361fd-372-319-315
P:210-233-280-302+352-305+351+338-403+235

CS2 MW 76.13 BP 46.2°C d 1.26 CAS [75-15-0] Assay >99.9% Water <0.05% Residue <0.0005%
UV: 385nm >10%; 390nm >50%; 400nm >80%; 410nm >90%; 450nm >99%
Aromatic impurities (as benzene) <0.0030% (<30 ppm)
IR Spectroscopy passes test
Application:GC, IR, Environment Analysis (eg, determination of aromatics in air)

Chlorobenzene SpS *H104*

500ml H104P
1LT H104M
2½LT H104L
Wng H:226-332-315-411
P:210-273-302+352-304+340

C6H5ClMW 112.56 BP131.7°C d 1.11 CAS [108-90-7]
Assay >99.9% Water <0.01% Residue <0.0001%
UV: 290nm >50%; 295nm >80%; 340nm >95%; 370-400nm >99%
Application: HPLC, UV Spectroscopy

1-Chlorobutane SpS *H118*

500ml H118P
1LT H118M
2½LT H118L
Dgr H:225
P:210

(n-Butyl Chloride)

CH3(CH2)3Cl MW 92.57 BP 78.4°C d 0.88 CAS [109-69-3]
Assay >99.9% Water <0.005% Residue <0.0001%
UV: 235nm >10%; 240nm >50%; 250nm >80%; 255nm >95%; 290-400nm >99%
Application: HPLC, Molecular Biology (eg, protein sequencing)

Chloroform SpS

stabilised with amylene *H140*

500ml H140P
1LT H140M
2½LT H140L
Dgr H:351-361d-331-302-372-319-315
P:261v-280f-304+340-305+351+338-308+313

(Trichloromethane)

CHCl3 MW 119.38 BP 61.2°C d 1.48 CAS [67-66-3]
Assay >99.9%* Water <0.005% Residue <0.0001%
UV: 250nm >10%; 255nm >50%; 260nm >80%; 270nm >95%; 280-400nm >99%
*ex stabiliser
Pesticide Residue Analysis passes test
Stabiliser: Amylene ca. 25 ppm
Application: Gel Permeation Chromatography, Environment Analysis (eg, pesticide residues)

ROMIL-SpS™ Super Purity Solvents Specifications

high purity solvents for instrumental analysis

Chloroform SpS

stabilised with ethanol *H135*

500ml H135P
1LT H135M
2½LT H135L
Dgr H:351-361d-331-302-372-319-315
P:261v-280f-304+340-305+351+338-308+313

(Trichloromethane)
CHCl3 MW 119.38 BP 61.2°Cd 1.48CAS [67-66-3]
Assay >99.9%*Water <0.005% Residue <0.0001%
UV: 250nm >10%; 255nm >50%; 260nm >80%; 270nm >95%; 280-400nm >99%
*ex stabiliser
Pesticide Residue Analysis passes test
IR Spectroscopy passes test
Stabiliser: Ethanol ca. 1% w/w
Stabiliser should only be removed immediately before use by adsorption onto activated alumina.
Application: HPLC, UV, IR, Environment Analysis (eg, pesticide residues)

Cyclohexane SpS *H156*

500ml H156P
1LT H156M
2½LT H156L
Dgr H:225-304-315-336-410
P:210-233-240-273-301+310- 302+352-331-403+235

C6H12 MW 84.16 FP 6.5°C BP 80.7°C d 0.78 CAS [110-82-7]
Assay >99.9% Water <0.005% Residue <0.0001%
UV: 195nm >10%; 215nm >50%; 225nm >80%; 240nm >95%; 265-400nm >99%
Pesticide Residue Analysis passes test
Fluorescence Spectroscopy passes test
Application: HPLC, UV, Fluorescence, Environment Analysis (eg, pesticide residues)

Cyclohexanone SpS *H173*

500ml H173P
1LT H173M
2½LT H173L
Wng H:226-332
P:210

C6H10OMW 98.15 FP-47°C BP 155°C d 0.94 CAS [108-94-1]
Assay >99.8% Water <0.02% Residue <0.0001%
UV: 340nm >10%; 345nm >50%; 350nm >80%; 365nm >95%; 390-400nm >99%
Application:UV Spectroscopy

1,2-Dichlorobenzene SpS *H177*

500ml H177P
1LT H177M
2½LT H177L
Wng H:302-315-319-335-410
P:273-302+352-305+351+338

C6H4Cl2MW 147.00 FP-17.0°C BP180.5°C d 1.31 CAS [95-50-1]
Assay >99.8% Water <0.05% Residue <0.0005%
UV: 300nm >10%; 310nm >50%; 330nm >80%; 375nm >95%; 390-400nm >99%
Application: Gel Permeation Chromatography

Dichloromethane SpS

stabilised with amylene *H202*

500ml H202P
1LT H202M
2½LT H202L
Wng H:351
P:281-308+313

(Methylene Dichloride)
CH2Cl2MW 84.93 BP 39.6°C d 1.33 CAS [75-09-2]
Assay >99.9%* Water <0.01% Residue <0.0001%
UV: 235nm >10%; 240nm >50%; 245nm >80%; 250nm >95%; 265-400nm >99%
*ex stabiliser
IR Spectroscopy passes test
Fluorescence Spectroscopy passes test
Pesticide Residue Analysis passes test
Stabiliser: Amylene ca. 25 ppm
Application: HPLC, UV, IR, Fluorescence Analysis (eg, plasma cortisol), Environment Analysis (eg, pesticide residues), Molecular Biology (see also ROMILCode H203 Dichloromethane BiO), Gel Permeation Chromatography

Diethyl Ether SpS

stabilised with BHT *H220*

500ml H220P
1LT H220M
2½LT H220L
Dgr H:224-302-336-EUH019-EUH066
P:210-240-403+235

(C2H5)2O MW 74.12 BP 34.4°C d 0.71 CAS [60-29-7]
Assay >99.9%* Water <0.02% Residue <0.0001%*
UV: 225nm >10%; 235nm >50%; 255nm >80%; 290nm >95%; 295-400nm >99%
*ex stabiliser
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Stabiliser: Butylated hydroxytoluene (BHT) ca. 5 ppm
Application: UVSpectroscopy, Techniques requiring a non-polar stabiliser

ROMIL-SpS™ Super Purity Solvents Specifications

high purity solvents for instrumental analysis

Diethyl Ether SpS

stabilised with copper *H218*

500ml H218P
1LT H218M
2½LT H218L
Dgr H:224-302-336-EUH019-EUH066
P:210-240-403+235

(C2H5)2O MW 74.12 BP 34.4°C d 0.71 CAS [60-29-7]
Assay >99.9% Water <0.02% Residue <0.0001%
UV: 220nm >10%; 230nm >50%; 250nm >80%; 280nm >95%; 315-400nm >99%
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Stabiliser: Copper gauze
Application: UV Spectroscopy,Separationaplicationsrequiring non-organic stabiliser

Diethyl Ether SpS

stabilised with ethanol *H219*

500ml H219P
1LT H219M
2½LT H219L
Dgr H:224-302-336-EUH019-EUH066
P:210-240-403+235

(C2H5)2O MW 74.12 BP 34.4°C d 0.71 CAS [60-29-7]
Assay >99.9%* Water <0.02% Residue <0.0001%
UV: 220nm >10%; 230nm >50%; 250nm >80%; 270nm >95%; 285-400nm >99%
*ex stabiliser
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Stabiliser: Ethanol ca. 1% v/v
Application: HPLC, UV Spectroscopy, Applications requiring dry ether

1,2-Dimethoxyethane SpS *H261*

500ml H261P
1LT H261M
2½LT H261L
Dgr H:225-360FD-332-EUH019 P:201-210-308+313-403+235

(Ethylene Glycol Dimethyl Ether)
CH3OCH2CH2OCH3 MW 90.12 FP -58°C BP 85°C d 0.87 CAS [110-71-4]
Assay >99.9% Water <0.01% Residue <0.0001%
UV: 215nm >10%; 240nm >50%; 260nm >80%; 280nm >95%; 300-400nm >99%
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: HPLC, UV Spectroscopy

Dimethylacetamide SpS *H249*

500ml H249P
1LT H249M
2½LT H249L
Dgr H:227-360D-312+332-319
P:201-302+352-305+351+338-308+313

CH3CON(CH3)2MW87.12FP-20.0°CBP 166.1°C d 0.94 CAS [127-19-5]
Assay >99.7% Water <0.05% Residue<0.0001%
UV: 275nm >10%; 280nm >50%; 300nm >80%; 330nm >95%; 350-400nm >99%
Application: Spectroscopy

Dimethylformamide SpS *H253*

500ml H253P
1LT H253M
2½LT H253L
Dgr H:360D-226-312+332-319
P:201-210-302+352-305+351+338-308+313

HCON(CH3)2 MW 73.09 BP 153.0°C d 0.95 CAS [68-12-2]
Assay >99.9% Water <0.03% Residue <0.0001%
UV: 270nm >10%; 275nm >50%; 285nm >80%; 310nm >95%; 325-400nm >99%
Application: HPLC, GC, Spectroscopy, Molecular Biology (see also ROMIL Code H254 Dimethylformamide BiO with 4Å molecular sieve), Gel Permeation Chromatography

1,4-Dioxan SpS *H297*

500ml H297P
1LT H297M
2½LT H297L
Dgr H:225-350-319-335-EUH019-EUH066
P:210-281-305+351+338-308+313

C4H8O2 MW 88.11 FP 11.8°C BP 101.3°C d 1.03 CAS [123-91-1]
Assay >99.9% Water <0.005% Residue <0.0001%
UV: 220nm >10%; 240nm >50%; 250nm >80%; 280nm >95%; 300-400nm >99%
Unstabilised
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: HPLC, GC, UV Spectroscopy, Liquid Scintillation, Applications requiring dry solvent

Di-iso-propyl Ether SpS

stabilised with BHT *H236*

500ml H236P
1LT H236M
2½LT H236L
Dgr H:225-336-EUH019-EUH066
P:210-240-403+235

[(CH3)2CH]2O MW 102.18 BP 68.5°C d 0.73 CAS [108-20-3]
Assay >99.5%* Water <0.02% Residue <0.0001%*
UV: 245nm >10%; 250nm >50%; 260nm >80%; 310nm >95%; 330-400nm >99%
*ex stabiliser
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Stabiliser: Butylated hydroxytoluene (BHT) ca. 5 ppm
Application: Spectroscopy

ROMIL-SpS™ Super Purity Solvents Specifications

high purity solvents for instrumental analysis

Ethyl Alcohol (see Ethanol)

Ethylene Glycol Dimethyl Ether (see 1,2-Dimethoxyethane)

Ethanol absolute SpS

H314

500ml H314P
1LT H314M
2½LT H314L
Dgr H:225
P:210-233-240-403+235

(Ethyl Alcohol)
C2H5OHMW 46.07 BP 78.3°C d 0.79 CAS [64-17-5]
Assay >99.8% Water <0.1% Residue <0.0001%
UV: 205nm >10%; 220nm >50%; 240nm >80%; 250nm >95%; 270-400nm >99%
IR Spectroscopy passes test
Fluorescence Spectroscopy passes test
Application: HPLC, GC, UV & IR & Fluorescence Spectroscopy (eg, uorimetric analysisof 17-ketosteroids)

Ethanolamine SpS

H321

100ml H321S
500ml H321P
Dgr H:302+312+332-314
P:280c-301+330+331-302+352-304+340-305+351+338-309+310

(2-Aminoethanol)
CH2(OH)CH2NH2 MW 61.08 FP 10.5°C BP 171°C d 1.02 CAS [141-43-5]
Assay >99.9% Water <0.2% Residue <0.0001%
UV: 250nm >10%; 255nm >50%; 270nm >80%; 310nm >95%; 350-400nm >99%
Application: Molecular Biology, Liquid Scintillation

Ethyl Acetate SpS

H346

500ml H346P
1LT H346M
2½LT H346L
Dgr H:225-319-336-EUH066
P:210-233-240-305+351+338-403+235

CH3COOC2H5 MW 88.11 BP 77.1°C d 0.90 CAS [141-78-6]
Assay >99.9% Water <0.005% Residue <0.0001%
UV: 255nm >10%; 260nm >50%; 265nm >80%; 270nm >95%; 310-400nm >99%
Pesticide Residue Analysis passes test
Application: HPLC, GC, UV Spectroscopy, Environment Analysis (eg, pesticide residues), Molecular Biology

1,1,1,3,3,3-Hexa uoropropan-2-ol (see Hexa uoropropan-2-ol)

Heptane fraction SpS

H368

500ml H368P
1LT H368M
2½LT H368L
Dgr H:225-304-315-336-410
P:210-273-301+310-331-302+352-304+340-403+235

C7H16 BP 85-99°C d0.69
Water <0.005% Residue <0.0001%
UV: 195nm >10%; 205nm >50%; 220nm >80%; 235nm >95%; 255-400nm >99%
Comprises ca. 20-50% n-isomer, the remainder being predominantly other isomers of heptane.
Pesticide Residue Analysis passes test
Application: HPLC, GC, UV Spectroscopy, Environment Analysis (eg, pesticide residues)

n-Heptane 95% SpS

H367

500ml H367P
1LT H367M
2½LT H367L
Dgr H:225-304-315-336-410
P:210-273-301+310-331-302+352-304+340-403+235

CH3(CH2)5CH3 MW 100.21BP94-98°C d 0.68 CAS [142-82-5] Water <0.005% Residue <0.0001%
UV: 195nm >10%; 205nm >50%; 220nm >80%; 235nm >95%; 255-400nm >99%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%
Pesticide Residue Analysis passes test
Fluorescence Spectroscopy passes test
Application: HPLC, GC, UV & Fluorescence Spectroscopy, Environment Analysis (eg,pesticide residues)

n-Heptane 99% SpS

H366

500ml H366P
1LT H366M
2½LT H366L
Dgr H:225-304-315-336-410
P:210-273-301+310-331-302+352-304+340-403+235

CH3(CH2)5CH3MW 100.21 BP98.4°C d 0.68 CAS [142-82-5]
Assay >99% Water <0.005% Residue <0.0001%
UV: 195nm >10%; 210nm >50%; 220nm >80%; 245nm >95%; 290-400nm >99%
Application: GC, UV Spectroscopy, Molecular Biology

Hexa uoropropan-2-ol SpS

H359

25ml H359V
100ml H359S
Dgr H:290-302+332-314
P:280c-301+330+331-305+351+338-309+310

(1,1,1,3,3,3-Hexa uoropropan-2-ol)
(CF3)2CHOH MW 168.04 FP -4.2°C BP 59.1°C d 1.62 CAS [920-66-1]
Assay >99.9% Water <0.05% Residue <0.0001%
UV: 190nm >10%; 220nm >50%; 280nm >80%; 300nm >95%; 310-400nm >99%
Application: UV Spectroscopy, GC derivatisation reagent, Molecular Biology

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ROMIL-SpS™ Super Purity Solvents Specifications

high purity solvents for instrumental analysis

Hexa ne fraction SpS *H390*

500ml H390P
1LT H390M
2½LT H390L
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

C6H14 BP 65-70°C d 0.66 CAS[73513-42-5]
Water <0.005% Residue <0.0001%
UV: 190nm >10%; 205nm >50%; 220nm >80%; 235nm >95%; 255-400nm >99%
Comprises ca. 50% n-isomer, the remainder being predominantly other isomers of hexane.
Pesticide Residue Analysis passes test
Application: HPLC, GC, UV Spectroscopy, Environment Analysis (eg, pesticide residues)

iso-Hexane 95% SpS *H388*

500ml H388P
1LT H388M
2½LT H388L
Dgr H:225-304-315-336-411
P:233-273-301+310-331-302+352-403+235

C6H14 MW 86.18 BP55-63°Cd 0.65 CAS [107-83-5] Water <0.005% Residue <0.0001%
UV: 195nm >10%; 205nm >50%; 220nm >80%; 240nm >95%; 260-400nm >99%
n-Hexane <5%
Pesticide Residue Analysis passes test
Fluorescence Spectroscopy passes test
Application: HPLC, GC, UV & Fluorescence Spectroscopy, Environment Analysis (eg,pesticide residues)

n-Hexane 95% SpS *H389*

500ml H389P
1LT H389M
2½LT H389L
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

CH3(CH2)4CH3 MW86.18 BP67-70°C d 0.66 CAS [110-54-3]
Water <0.005% Residue <0.0001%
UV: 190nm >10%; 205nm >50%; 220nm >80%; 235nm >95%; 255-400nm >99%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%
Pesticide Residue Analysis passes test
Fluorescence Spectroscopy passes test
Application: HPLC, GC, UV & Fluorescence Spectroscopy, Environment Analysis (eg, pesticide residues)

n-Hexane 99% SpS *H393*

500ml H393P
1LT H393M
2½LT H393L
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

CH3(CH2)4CH3 MW 86.18 BP 68.7°C d 0.66 CAS [110-54-3]
Assay >99% Water <0.005% Residue <0.0001%
UV: 190nm >10%; 205nm >50%; 220nm >80%; 235nm >95%; 255-400nm >99%
Pesticide Residue Analysis passes test
Application: HPLC, GC, UV Spectroscopy, Environment Analysis (eg, pesticide residues), Gel Permeation Chromatography

Methyl Alcohol (see Methanol)

Methyl Cyanide (see Acetonitrile)

4-Methyl-1,3-dioxolan-2-one (see Propylene Carbonate)

Methylene Chloride (see Dichloromethane)

Methylene Dichloride (see Dichloromethane) **4-**

Methylpentan-2-one (see Methyl iso-Butyl Ketone)

Methanol 215 SpS *H409*

500ml H409P
1LT H409M
2½LT H409L
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

(Methyl Alcohol)
CH3OHMW 32.04 BP 64.5°C d 0.79 CAS [67-56-1]
Assay >99.9% Water <0.02% Residue <0.0001%
UV: 215nm >10%; 225nm >50%; 235nm >80%; 255nm >95%; 280-400nm >99%
Application: HPLC, UV, Liquid Scintillation

ROMIL-SpS™ Super Purity Solvents Specifications

high purity solvents for instrumental analysis

Methanol 205 SpS

gradient quality *H410*

500ml H410P
1LT H410M
2½LT H410L
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

(Methyl Alcohol)
CH3OH MW 32.04 BP 64.5°C d 0.79 CAS [67-56-1]
Assay >99.9% Water <0.02% Residue <0.0001%
UV: 205nm >10%; 210nm >50%; 225nm >80%; 240nm >95%; 265-400nm >99%
Acidity <0.0003 meq/g
Alkalinity <0.0002 meq/g
HPLC Gradient Use Test:
230nm <0.005 AU
254nm <0.005 AU
Conforms to ACS liquid chromatography suitability.
Pesticide Residue Analysis passes test
Fluorescence Spectroscopy passes test
Application: Gradient HPLC, GC, UV, Environment Analysis (eg, pesticide residues), Applications requiring dry solvent, Non-aqueous Titrations, Liquid Scintillation, Molecular Biology, Fluorescence Spectroscopy

Methyl tert-Butyl Ether SpS *H447*

500ml H447P
1LT H447M
2½LT H447L
Dgr H:225-315
P:210-233-302+352-403+235

(tert-Butyl Methyl Ether)
CH3OC(CH3)3 MW 88.15 BP 55.4°Cd 0.74CAS [1634-04-4]
Assay>99.7% Water <0.02% Residue <0.0001%
UV: 220nm >10%; 235nm >50%; 255nm >80%; 270nm >90%; 300-400nm >99%
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: HPLC, GC

Methyl iso-Butyl Ketone SpS *H446*

500ml H446P
1LT H446M
2½LT H446L
Dgr H:225-332-319-336-351-EUH066
P:210-305+351+338-304+340

(4-Methylpentan-2-one)
(CH3)2CHCH2COCH3 MW 100.16 BP 117.4°C d 0.80 CAS [108-10-1]
Assay >99.8% Water <0.01% Residue <0.0001%
UV: 335nm >10%; 340nm >50%; 360nm >80%; 375nm >95%; 390-400nm >99%
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: Organic Analysis and Chromatography

Methylcyclohexane SpS *H465*

500ml H465P
1LT H465M
Dgr H:225-304-315-336-411
P:273-301+310-331-302+352-403+235

C7H14 MW 98.19 BP 101°Cd 0.77CAS [108-87-2]
Assay >99.9% Water <0.005% Residue <0.0001%
UV: 200nm >10%; 220nm >50%; 230nm >80%; 250nm >95%; 280-400nm >99%
Fluorescence Spectroscopy passes test
Application: UV Spectroscopy, Fluorescence Spectroscopy

Methyl Ethyl Ketone SpS *H493*

500ml H493P
1LT H493M
2½LT H493L
Dgr H:225-319-336-EUH066
P:210-305+351+338-403+233

(2-Butanone)
CH3CH2COCH3 MW 72.11 BP 79.6°C d 0.80 CAS [78-93-3]
Assay >99.8% Water <0.02% Residue <0.0001%
UV: 330nm >10%; 335nm >50%; 340nm >80%; 345nm >95%; 350-400nm >99%
Application: HPLC, UV Spectroscopy, Environment Analysis

N-Methyl-2-pyrrolidone SpS *H565*

500ml H565P
1LT H565M
2½LT H565L
Dgr H:360D-315-319-335
P:201-302+352-305+351+338-308+313

CH2(CH2)2CONCH3 MW 99.13 BP 202.0°C d 1.03 CAS [872-50-4]
Assay >99.5% Water <0.05%
UV: 295nm >10%; 300nm >50%; 320nm >80%; 360nm >95%; 395-400nm >99%
Application: Molecular Biology (eg, DNA synthesis), Versatile and powerful solvent properties

2-Methyltetrahydrofuran SpS *H536*

500ml H536P
1LT H536M
2½LT H536L
Dgr H:225-319-335-EUH019
P:210-233-240-305+351+338-403+235

CH3C4H7O MW 86.13 BP 80°C d 0.86 CAS [96-47-9]
Assay >99.8% Water <0.01% Residue <0.0001%
UV: 245nm >10%; 250nm >50%; 270nm >80%; 295nm >95%; 360-400nm >99%
Unstabilised
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: Applications requiring dry solvent

ROMIL-SpS™ Super Purity Solvents Specifications

high purity solvents for instrumental analysis

2-Methyltetrahydrofuran SpS

stabilised with BHT *H537*

500ml H537P
1LT H537M
2½LT H537L
Dgr H:225-319-335-EUH019
P:210-233-240-305+351+338-403+235

CH3C4H7O MW 86.13 BP 80°C d 0.86 CAS [96-47-9]
Assay >99.8%* Water <0.01% Residue <0.0001%*
*ex stabiliser
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Stabiliser: Butylated hydroxytoluene (BHT) ca. 250 ppm
Application: Applications requiring dry solvent

n-Nonane 95% SpS

H568

500ml H568P
1LT H568M
2½LT H568L
Dgr H:226-304
P:210-301+310-331

CH3(CH2)7CH3 MW128.26BP146-150°C d 0.72 CAS [111-84-2]
Water <0.005% Residue <0.0001%
UV: 220nm >10%; 240nm >50%; 290nm >80%; 310nm >95%; 330-400nm >99%
Application: UV Spectroscopy

iso-Octane (see 2,2,4-Trimethylpentane)

Perchloroethylene (see Tetrachloroethylene)

Petroleum Distillate (see Petroleum Ether)

n-Propanol (see Propan-1-ol)

iso-Propanol (see Propan-2-ol)

Propanone (see Acetone)

n-Propyl Alcohol (see Propan-1-ol)

iso-Propyl Alcohol (see Propan-2-ol)

n-Pentane 95% SpS

H571

500ml H571P
1LT H571M
2½LT H571L
Dgr H:225-304-336-411-EUH066
P:273-301+310-331-403+235

CH3(CH2)3CH3 MW 72.15 BP35.5-37°C d 0.63 CAS [109-66-0]
Water <0.005% Residue <0.0001%
UV: 190nm >10%; 205nm >50%; 220nm >80%; 235nm >95%; 255-400nm >99%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%
Haloform impurities <0.0001% (<1 ppm)
Pesticide Residue Analysis passes test
Application: HPLC, GC, Environment Analysis (eg pesticide residues), Gel Permeation Chromatography

Petroleum Ether 30-40°C SpS

H600

500ml H600P
1LT H600M
2½LT H600L
Dgr H:225-304-336-411-EUH066
P:210-243-301+310-303+361+353-405-501

(Petroleum Distillate, Petroleum Spirit)
BP 30-40°C d0.62 CAS [109-66-0]
Water <0.005% Residue <0.0001%
UV: 190nm >10%; 205nm >50%; 220nm >80%; 235nm >95%; 255-400nm >99%

Petroleum Ether 40-60°C SpS

H601

500ml H601P
1LT H601M
2½LT H601L
Dgr H:225-304-336-411-EUH066
P:210-233-243-273-280-301+310-303+361+353-304+340-331-403+235

(Petroleum Distillate, Petroleum Spirit)
BP 40-60°C d 0.64 CAS [8032-32-4]
Water <0.005% Residue <0.0001%
UV: 190nm >10%; 205nm >50%; 220nm >80%; 235nm >95%; 255-400nm >99%
Pesticide Residue Analysis passes test
Application: Environment Analysis (egpesticide residues)

ROMIL-SpS™ Super Purity Solvents Specifications

high purity solvents for instrumental analysis

Petroleum Ether 60-80°C SpS — H602

500ml H602P
1LT H602M
2½LT H602L
Dgr H:225-304-315-336-411
P:210-243-273-280-301+310-331-403+235

(Petroleum Distillate, Petroleum Spirit)
BP 60-80°C d 0.67
Water <0.005% Residue <0.0001%
UV: 190nm >10%; 205nm >50%; 220nm >80%; 235nm >95%; 255-400nm >99%
Pesticide Residue Analysis passes test
Application: Environment Analysis (eg pesticide residues)

Petroleum Ether 80-100°C SpS — H603

500ml H603P
1LT H603M
2½LT H603L
Dgr H:225-304-315-336-411
P:210-273-280-260v-301+310-331-403+235

(Petroleum Distillate, Petroleum Spirit)
BP 80-100°C d 0.69CAS [64742-49-0]
Water <0.005% Residue <0.0001%
UV: 200nm >10%; 215nm >50%; 230nm >80%; 240nm >95%; 255-400nm >99%

Propan-1,2-diol SpS — H629

500ml H629P
1LT H629M
2½LT H629L

(1,2-Propylene Glycol)
CH3CH(OH)CH2OH MW 76.10 BP 187.6°C CAS [57-55-6]
Assay >99.8% Water <0.005% Residue <0.0001%
UV: 210nm >10%; 215nm >50%; 230nm >80%; 245nm >95%; 260-400nm >99%
Application: UV Spectroscopy

Propan-1-ol SpS — H624

500ml H624P
1LT H624M
2½LT H624L
Dgr H:225-318-336
P:210-233-280f-305+351+338-313

(n-Propanol, n-Propyl Alcohol)
CH3CH2CH2OHMW 60.10 BP 97.2°C d 0.80 CAS [71-23-8]
Assay >99.9% Water <0.05% Residue <0.0001%
UV: 210nm >10%; 225nm >50%; 235nm >80%; 250nm >95%; 280-400nm >99%
Application: HPLC, GC, UV Spectroscopy

Propan-2-ol SpS — H625

500ml H625P
1LT H625M
2½LT H625L
Dgr H:225-319-336
P:210-233-305+351+338

(iso-Propanol, iso-Propyl Alcohol)
(CH3)2CHOH MW 60.10BP 82.2°C d 0.78 CAS [67-63-0]
Assay >99.9% Water <0.02% Residue <0.0001%
UV: 205nm >10%; 210nm >50%; 225nm >80%; 240nm >95%; 255-400nm >99%
Pesticide Residue Analysis passes test
Fluorescence Spectroscopy passes test
Application: HPLC, GC, UV & Fluorescence Spectroscopy, Environment Analysis (eg, pesticide residues)

Propylene Carbonate SpS — H645

500ml H645P
1LT H645M
Wng H:319
P:305+351+338

(4-Methyl-1,3-dioxolan-2-one)
CH3CHOCOOCH2 MW102.09 BP 241.7°C d 1.20 CAS [108-32-7]
Assay >99.8% Water <0.01% Residue <0.0001%
UV: 255nm >10%; 290nm >50%; 315nm >80%; 350nm >95%; 360-400nm >99%
Application: GC

Pyridine SpS — H650

500ml H650P
1LT H650M
2½LT H650L
Dgr H:225-302+312+332-315-319
P:210-302+352-304+340-305+351+338-403+235

C5H5N MW 79.10 BP 115.3°C d 0.98 CAS [110-86-1]
Assay >99.8% Water <0.02% Residue <0.0001%
UV: 330nm >10%; 335nm >50%; 340nm >80%; 350nm >95%; 370-400nm >99%
IR Spectroscopy passes test
Application: UV and IR Spectroscopy

Tetrachloroethylene SpS — H702

500ml H702P
1LT H702M
2½LT H702L
Wng H:315-317-319-336-351-411
P:273-281-302+352-305+351+338-308+313

(Perchloroethylene)
CCl2CCl2MW 165.83 BP 121.1°C d 1.62 CAS [127-18-4]
Assay >99.9% Water <0.005% Residue <0.0001%
UV: 290nm >10%; 295nm >50%; 300nm >80%; 380nm >95%; 395-400nm >99%
Unstabilised
IR Spectroscopy passes test
Application: UV & IR Spectroscopy

ROMIL-SpS™ Super Purity Solvents Specifications

high purity solvents for instrumental analysis

Tetrahydrofuran SpS *H718*

500ml H718P
1LT H718M
2½LT H718L
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2O MW 72.11BP 66.0°C d 0.89 CAS [109-99-9]
Assay >99.9% Water <0.005% Residue <0.0001%
UV: 215nm >10%; 235nm >50%; 255nm >80%; 275nm >95%; 295-400nm >99%
Unstabilised
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: HPLC, Gel Permeation Chromatography, UV Spectroscopy, Applications requiring drysolvent, Molecular Biology

Tetrahydrofuran SpS
stabilised with BHT *H719*

500ml H719P
1LT H719M
2½LT H719L
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2O MW 72.11 BP 66.0°C d 0.89 CAS [109-99-9] Assay >99.9%*
Water <0.005% Residue <0.0001%*
UV: 290nm >10%; 295nm >50%; 300nm >80%; 305nm >95%; 310-400nm >99%
*ex stabiliser
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Stabiliser: Butylated hydroxytoluene (BHT) ca. 250 ppm
Application: Applications requiring dry solvent, Analysis of vinyl chloride in PVC, Gel Permeation Chromatography

Toluene SpS *H771*

500ml H771P
1LT H771M
2½LT H771L
Dgr H:225-304-315-336-361d-373
P:210-240-301+310-331-302+352-403+235

C6H5CH3 MW 92.14 BP 110.6°C d 0.87 CAS [108-88-3]
Assay >99.9% Water <0.01% Residue <0.0001%
UV: 285nm >10%; 290nm >50%; 300nm >80%; 320nm >95%; 350-400nm >99%
Pesticide Residue Analysis passes test
Application: HPLC, GC, Environment Analysis (eg, pesticide residues), Gel Permeation Chromatography, Liquid Scintillation

Trichloroethylene SpS *H742*

500ml H742P
1LT H742M
2½LT H742L
Dgr H:350-315-319-336-341-412
P:201-273-302+352-305-351-338-308+313

CCl2CHCl MW 131.39 FP -87°C BP 86.7°C d 1.46 CAS [79-01-6]
Assay >99.8%* Water <0.01% Residue <0.0001%
UV: 275nm >10%; 280nm >50%; 315nm >80%; 375nm >95%; 400nm >99%
*ex stabiliser
Stabiliser: Maxistab ca. 700 ppm
Application: UV Spectroscopy
Maxistab is a trademark of The Dow Chemical Company

2,2,2-Tri uoroethanol SpS *H860*

100ml H860S
500ml H860P
Dgr H:226-301+331-312-315-318-373
P:210-280f-302+352-304+340-305+351+338-309+310

CF3CH2OH MW100.04BP 74.1°Cd 1.39 CAS [75-89-8]
Assay >99.9% Water <0.1% Residue <0.0001%
UV: 190nm >40%; 195nm >70%; 200nm >80%; 230nm >95%; 265-400nm >99%
Application: UV Spectroscopy (very low cut o)

2,2,4-Trimethylpentane SpS *H901*

500ml H901P
1LT H901M
2½LT H901L
Dgr H:225-304-315-336-410
P:210-233-240-273-301+310-331-302+352-304+340-403+235

(iso-Octane)
(CH3)3CCH2CH(CH3)2 MW 114.23 BP 99.2°C d 0.69 CAS [540-84-1]
Assay >99.75% Water <0.005% Residue <0.0001%
UV: 205nm >10%; 215nm >50%; 225nm >80%; 240nm >95%; 270-400nm >99%
IR Spectroscopy passes test
Pesticide Residue Analysis passes test
Application: HPLC, GC, UV & IR Spectroscopy, Environment Analysis (eg, pesticide residues)

Water SpS *H950*

500ml H950P
1LT H950M
2½LT H950L

H2OMW 18.02 FP 0.0°C BP 100.0°C CAS [7732-18-5]
Residue <0.0001%
Resistivity (at time of manufacture) >18 MOhm @ 25°C
pH (at time of manufacture) 5.5-8.0 @ 25°C
TOC (at time of manufacture) <30 ppb
HPLC Gradient Use Test:
205nm <0.005 AU
254nm <0.002 AU
Conforms to ACS liquid chromatography suitability.
Filtered to 0.2 micron
Application: Gradient HPLC, Environment Analysis of Trace Organics (see also ROMIL Code H951 Water SpA for inorganic trace analysis), Molecular Biology

info@rikiglobal.com www.rikiglobal.com +91-9908246695 +91-40-35172288/89

ROMIL-SpS™ Super Purity Solvents Specifications

high purity solvents for instrumental analysis

m-Xylene SpS

H965

500ml H965P

Wng H:226-312+332-315 P:210-302+352-304+340

C6H4(CH3)2 MW 106.17 FP -47.8°C BP 139.1°C d 0.86 CAS [108-38-3]
Assay >99.0% Water <0.01% Residue <0.0001%
UV: 295nm >10%; 305nm >50%; 320nm >80%; 350nm >95%; 370-400nm >99%

o-Xylene SpS

H958

500ml H958P

Wng H:226-312+332-315 P:210-302+352

C6H4(CH3)2 MW 106.17 FP -25°C BP 144.4°C d 0.88 CAS [95-47-6]
Assay >99.0% Water <0.01% Residue <0.0001%
UV: 295nm >10%; 305nm >50%; 320nm >80%; 350nm >95%; 370-400nm >99%

p-Xylene SpS

H973

500ml H973P

Wng H:226-312+332-315 P:210-302+352

C6H4(CH3)2 MW 106.17 FP 13.2°C BP 138.3°C d 0.86 CAS [106-42-3]
Assay >99.0% Water <0.01% Residue <0.0001%
UV: 295nm >10%; 305nm >50%; 320nm >80%; 350nm >95%; 370-400nm >99%

Xylene mixed isomers SpS

H982

500ml H982P
1LT H982M
2½LT H982L

Wng H:226-312+332-315 P:210-302+352-304+340

C6H4(CH3)2 MW 106.17 BP138-142°C d 0.86 CAS [1330-20-7]
Water <0.01% Residue <0.0001%
UV: 295nm >10%; 305nm >50%; 320nm >80%; 350nm >95%; 370-400nm >99%
Comprises 3 isomers and ethylbenzene
Assay (total C8H10 isomers) >98.5%
Ethylbenzene typically <3%
Toluene typically <0.5%
Methylethylbenzene typically <0.5%
Application: Liquid Scintillation

ROMIL-UpS™ Ultra Purity Solvents Specifications

for critical analytical applications

Acetone UpS

ultra gc

H033

2½LT H033L
Dgr H:225-319-336-EUH066
P:210-233-305+351+338

(Propanone)

(CH3)2CO MW 58.08 BP 56.1°C d 0.79 CAS [67-64-1]
Assay >99.95% Water <0.2% Residue <0.0001%
Suitability for GC-FID passes test
Suitability for GC-ECD passes test
Suitability for GC-MS passes test
Application:GC critical lowresidue applications

Acetonitrile UpS

ultra gc

H054

2½LT H054L
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+233

(Methyl Cyanide)

CH3CNMW41.05 BP 81.6°C d 0.78 CAS [75-05-8]
Assay >99.9% Water <0.02% Residue <0.0001%
Suitability for GC-FID passes test
Suitability for GC-ECD passes test
Suitability for GC-MS passes test
Application:GCcritical lowresidue applications

Acetonitrile UpS

ultra lc

H050

1LT H050M
2½LT H050L
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+233

(Methyl Cyanide)

CH3CN MW 41.05 BP 81.6°C d 0.78 CAS [75-05-8]
Assay >99.9% Water <0.005% Residue <0.0001%
UV: 190nm >18%; 193nm >50%; 197nm >80%; 215nm >95%; 230-400nm >99%
Acidity <0.0005 meq/g
Alkalinity <0.00006 meq/g
Gradient Use Test: 205nm <0.002 AU; 254nm <0.0005 AU
Baseline drift <0.02 AU @ 205nm
Fluorescence (as quinine): 254nm <1 ppb; 365nm <1 ppb
Suitability for LC-MS passes test
Trace ionic impurities:
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Application: HPLC criticalgradient applications, LC-MS, UHPLC

Acetonitrile UpS

ultra pfas

H052

2½LT H052L
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+ 233

(Methyl Cyanide)

CH3CN MW 41.05 BP 81.6°C d 0.78 CAS [75-05-8]
Assay >99.9% Water <0.005% Residue <0.0001%
UV: 190 nm >18%; 19 3nm >50%; 197 nm > 80%; 215nm >95%; 230-400nm >99%
Acidity <0.0005 meq/g
Alkalinity <0.00006 meq/g
Gradient Use Test: 205nm <0.002 AU; 254nm <0.0005 AU
Baseline drift <0.02 AU @ 205nm
Fluorescence (as quinine): 254nm <1 ppb; 365nm <1 ppb
Suitability for LC-MS passes test
Trace ionic impurities:
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Suitability for PFAS analysis passes test
Application: Ultra low background solvent for LC-MS analysis of poly- and per-uoroalkyl substances

Dichloromethane UpS

stabilised with amylene ultra lc

H204

2½LT H204L
Wng H:351
P:281-308+313

(Methylene Dichloride)

CH2Cl2MW 84.93 BP 39.6°C d 1.33 CAS [75-09-2]
Assay >99.9%* Water <0.01% Residue <0.0001%
UV: 235nm >10%; 240nm >50%; 245nm >80%; 250nm >95%; 265-400nm >99%
*ex stabiliser
Stabiliser: Amylene ca. 25 ppm
Gradient Use Test: 260nm <0.0005 AU
Application: HPLC critical gradient applications, UHPLC

Dichloromethane UpS

stabilised with cyclohexene/amylene ultra gc

H205

2½LT H205L
Wng H:351
P:281-308+313

(Methylene Dichloride)

CH2Cl2MW84.93BP 39.6°C d 1.33 CAS [75-09-2]
Assay >99.9%* Water <0.01% Residue <0.0001%
*ex stabiliser
Stabiliser: Cyclohexene/Amylene ca. 50/25 ppm
Suitability for GC-FID: passes test
Suitability for GC-ECD: passes test
Suitability for GC-MS: passes test
Application: GC critical low residue applications

ROMIL-UpS™ Ultra Purity Solvents Specifications

for critical analytical applications

Ethyl Alcohol (see Ethanol)

Ethanol absolute UpS

ultra lc *H317*

2½LT H317L
Dgr H:225
P:210-233-240-403+235

(Ethyl Alcohol)
C2H5OHMW 46.07 BP 78.3°C d 0.79 CAS [64-17-5]
Assay >99.8% Water <0.1% Residue <0.0001%
UV: 205nm >10%; 220nm >50%; 240nm >80%; 250nm >95%; 270-400nm >99%
Gradient Use Test: <0.005 AU @ 260nm
Fluorescence (as quinine): 254nm <2 ppb
Application: HPLC critical gradient applications, UHPLC

Ethyl Acetate UpS

ultra lc *H347*

2½LT H347L
Dgr H:225-319-336-EUH066
P:210-233-240-305+351+338-403+235

CH3COOC2H5 MW 88.11 BP 77.1°C d 0.90 CAS [141-78-6]
Assay >99.9% Water <0.005% Residue <0.0001%
UV: 255nm >10%; 260nm >50%; 265nm >80%; 270nm >95%; 310-400nm >99%
Gradient Use Test: <0.0005 AU @ 290nm
Application: HPLC critical gradient applications, UHPLC

n-Heptane 99% UpS

ultra gc *H364*

2½LT H364L
Dgr H:225-304-315-336-410
P:210-273-301+310-331-302+352-304+340-403+235

CH3(CH2)5CH3 MW 100.21 BP 98.4°C d 0.68 CAS [142-82-5] Assay >99% Water <0.01% Residue <0.0001%
Suitability for GC-FID passes test
Suitability for GC-ECD passes test
Suitability for GC-MS passes test
Application:GCcritical lowresidue applications

n-Heptane 99% UpS

ultra lc *H363*

1LT H363M
2½LT H363L
Dgr H:225-304-315-336-410
P:210-273-301+310-331-302+352-304+340-403+235

CH3(CH2)5CH3 MW 100.21 BP 98.4°C d 0.68 CAS [142-82-5]
Assay >99% Water <0.005% Residue <0.0001%
UV: 195nm >10%; 210nm >50%; 220nm >80%; 245nm >95%; 290-400nm >99%
Acidity <0.0002 meq/g
Alkalinity <0.0002 meq/g
Trace ionic impurities:
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Application: HPLCcriticalapplications, LC-MS, UHPLC

n-Hexane 95% UpS

ultra lc *H391*

2½LT H391L
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

CH3(CH2)4CH3 MW 86.18 BP 67-70°C d 0.66 CAS [110-54-3]
Water <0.005% Residue <0.0001%
UV: 190nm >10%; 205nm >50%; 220nm >80%; 235nm >95%; 255-400nm >99%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%
Gradient Use Test: <0.0005 AU @ 260nm
Application: HPLC criticalgradient applications, UHPLC

n-Hexane 99% UpS

ultra gc *H394*

2½LT H394L
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

CH3(CH2)4CH3 MW 86.18 BP 68.7°C d 0.66 CAS [110-54-3] Assay >99% Water <0.01% Residue <0.0001%
Suitability for GC-FID passes test
Suitability for GC-ECD passes test
Suitability for GC-MS passes test
Application: GC critical low residue applications

ROMIL-UpS™ Ultra Purity Solvents Specifications

for critical analytical applications

n-Hexane 99% UpS

ultra lc *H395*

1LT H395M
2½LT H395L
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

CH3(CH2)4CH3 MW 86.18 BP 68.7°C d 0.66 CAS [110-54-3]
Assay >99% Water <0.005% Residue <0.0001%
UV: 190nm >10%; 205nm >50%; 220nm >80%; 235nm >95%; 255-400nm >99%
Acidity <0.0002 meq/g
Alkalinity <0.0002 meq/g
Trace ionic impurities:
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Application: HPLC critical applications, LC-MS, UHPLC

Methyl Alcohol (see Methanol)

Methyl Cyanide (see Acetonitrile)

Methylene Dichloride (see Dichloromethane)

Methanol UpS

ultra gc *H415*

2½LT H415L
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

(Methyl Alcohol)
CH3OHMW 32.04 BP 64.5°C d 0.79 CAS [67-56-1]
Assay >99.9% Water <0.02% Residue <0.0001%
Suitability for GC-FID passes test
Suitability for GC-ECD passes test
Suitability for GC-MS passes test
Application:GCcritical low residue applications

Methanol UpS

ultra lc *H411*

1LT H411M
2½LT H411L
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

(Methyl Alcohol)
CH3OH MW 32.04 BP 64.5°C d 0.79 CAS [67-56-1]
Assay >99.9% Water <0.02% Residue <0.0001%
UV: 205nm >10%; 210nm >50%; 225nm >80%; 240nm >95%; 265-400nm >99%
Acidity <0.0003 meq/g
Alkalinity <0.0002 meq/g
Gradient Use Test: 230nm <0.002 AU; 254nm <0.002 AU
Baseline drift <0.02 @ 230nm
Fluorescence (as quinine): 254nm <1 ppb; 365nm <1 ppb
Suitability for LC-MS passes test
Trace ionic impurities:
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Application: HPLC critical gradient applications, LC-MS, UHPLC

Methanol UpS

ultra pfas *H414*

2½LT H414L
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

(Methyl Alcohol)
CH3OH MW 32.04 BP 64.5°C d 0.79 CAS [67-56-1]
Assay >99.9% Water <0.02% Residue <0.0001%
UV: 205nm >10%; 210nm >50%; 225nm >80%; 240nm >95%; 265-400nm >99%
Acidity <0.0003 meq/g
Alkalinity <0.0002 meq/g
Gradient Use Test: 230nm <0.002 AU; 254nm <0.002 AU
Baselin e drift <0.02 @ 230 nm
Fluorescence (as quinine): 254nm <1 ppb; 365nm <1 ppb
Suitability for LC-MS passes test
Trace ionic impurities:
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Suitability for PFAS analysis passes test
Application: Ultra low background solvent for LC-MS analysis of poly- and per-uoroalkyl substances

iso-Octane (see 2,2,4-Trimethylpentane)

iso-Propanol (see Propan-2-ol)

Propanone (see Acetone)

iso-Propyl Alcohol (see Propan-2-ol)

ROMIL-UpS™ Ultra Purity Solvents Specifications

for critical analytical applications

n-Pentane 95% UpS

ultra gc *H574*

2½LT H574L
Dgr H:225-304-336-411-EUH066
P:273-301+310-331-403+235

CH3(CH2)3CH3 MW 72.15 BP 36.0°C d 0.63 CAS [109-66-0] Water <0.005% Residue <0.0001%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%
Suitability for GC-FID passes test
Suitability for GC-ECD passes test
Suitability for GC-MS passes test
Application:GCcritical lowresidue applications

n-Pentane 99% UpS

ultra gc *H573*

2½LT H573L
Dgr H:225-304-336-411-EUH066
P:273-301+310-331-403+235

CH3(CH2)3CH3 MW 72.15 BP 36.0°C d 0.63 CAS [109-66-0] Assay >99% Water <0.01% Residue <0.0001%
Suitability for GC-FID passes test
Suitability for GC-ECD passes test
Suitability for GC-MS passes test
Application:GCcritical lowresidue applications

Propan-2-ol UpS

ultra lc *H626*

1LT H626M
2½LT H626L
Dgr H:225-319-336
P:210-233-305+351+338

(iso-Propanol, iso-Propyl Alcohol)
(CH3)2CHOH MW 60.10BP 82.2°C d 0.78 CAS [67-63-0]
Assay >99.9% Water <0.02% Residue <0.0001%
UV: 205nm >10%; 210nm >50%; 225nm >80%; 240nm >95%; 255-400nm >99%
Acidity <0.0002 meq/g
Alkalinity <0.0002 meq/g
Gradient Use Test: 254nm <0.005 AU
Fluorescence (as quinine): 254nm <1 ppb; 365nm <1 ppb
Suitability for LC-MS passes test
Trace ionic impurities:
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Application: HPLC critical gradient applications, LC-MS, UHPLC

Tetrahydrofuran UpS

ultra lc *H720*

1LT H720M
2½LT H720L
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2O MW 72.11 BP 66.0°C d 0.89 CAS [109-99-9]
Assay >99.9% Water <0.005% Residue <0.0001%
UV: 215nm >10%; 235nm >50%; 255nm >80%; 275nm >95%; 295-400nm >99%
Unstabilised
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Acidity <0.0005 meq/g
Alkalinity <0.0005 meq/g
Gradient Use Test: 290nm <0.0005 AU
Fluorescence (as quinine): 254nm <1 ppb; 365nm <1 ppb
Suitability for LC-MS passes test
Trace ionic impurities:
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Application: HPLC critical gradient applications, LC-MS, UHPLC

Toluene UpS

ultra gc *H772*

2½LT H772L
Dgr H:225-304-315-336-361d-373
P:210-240-301+310-331-302+352-403+235

C6H5CH3 MW 92.14 BP 110.6°C d 0.87 CAS [108-88-3]
Assay >99.9% Water <0.01% Residue <0.0001%
Suitability for GC-FID passes test
Suitability for GC-ECD passes test
Suitability for GC-MS passes test
Application:GC critical lowresidueapplications

2,2,4-Trimethylpentane UpS

ultra gc *H903*

2½LT H903L
Dgr H:225-304-315-336-410
P:210-233-240-273-301+310-331-302+352-304+340-403+235

(iso-Octane)
(CH3)3CCH2CH(CH3)2 MW 114.23 BP 99.2°C d 0.69 CAS [540-84-1] Assay >99.75% Water <0.01% Residue <0.0001%
Suitability for GC-FID passes test
Suitability for GC-ECD passes test
Suitability for GC-MS passes test
Application: GC critical low residue applications

ROMIL-UpS™ Ultra Purity Solvents Specifications

for critical analytical applications

Water UpS

ultra lc

H949

1LT H949M
2½LT H949L

H2O MW 18.02 FP 0.0°C BP 100.0°C d 1.00 CAS [7732-18-5]
Residue <0.00005%
Resistivity (at time of manufacture) >18 MOhm @ 25°C
pH (at time of manufacture) 5.5-8.0 @ 25°C
TOC (at time of manufacture) <10 ppb
Gradient Use Test: 205nm <0.002 AU; 254nm <0.0005 AU
Baseline drift <0.02 AU @ 205nm
Suitability for LC-MS passes test
Trace ionic impurities:
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Filtered to 0.2 micron
Application: HPLCcritical gradient applications, LC-MS, UHPLC

Water UpS

ultra pfas

H952

2½LT H952L

H2O MW 18.02 FP 0.0°C BP 100.0°C d 1.00 CAS [7732-18-5]
Residue <0.00005%
Resistivity (at time of manufacture) >18 MOhm @ 25°C
pH (at time of manufacture) 5.5-8.0 @ 25°C
TOC (at time of manufacture) <10 ppb
Gradient Use Test: 205nm <0.002 AU; 254nm <0.0005 AU
Baseline drift <0.02 AU @ 205nm
Suitability for LC-MS passes test
Trace ionic impurities:
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Suitability for PFAS analysis passes test
Filtered to 0.2 micron
Application: Ultra low background solvent for LC-MS analysis of poly- and per- uoroalkyl substances

ROMIL Hi-Dry® Anhydrous Solvents Specifications

Acetic Acid glacial (see Acetic Acid)

Acetic Acid Hi-Dry — D4016

100ml D4016S
500ml D4016P
1LT D4016M
2½LT D4016L
Dgr H:226-314
P:280c-301+330+331-305+351+338-307+310

(Acetic Acid glacial)

CH3COOHMW 60.05 FP 16.7°C BP 117.9°C d 1.05 CAS [64-19-7] Assay >99.8% Water <0.0050% Residue <0.0001%

Acetone Hi-Dry — D4032

100ml D4032S
500ml D4032P
1LT D4032M
2½LT D4032L
Dgr H:225-319-336-EUH066
P:210-233-305+351+338

(Propanone)

(CH3)2COMW 58.08 BP 56.1°C d 0.79 CAS [67-64-1] Assay >99.9% Water <0.0050% Residue <0.0001%

Acetonitrile Hi-Dry — D4049

100ml D4049S
500ml D4049P
1LT D4049M
2½LT D4049L
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+233

(Methyl Cyanide)

CH3CNMW41.05 BP 81.6°C d 0.78 CAS [75-05-8] Assay >99.9% Water <0.0010% Residue <0.0001%

Acetonitrile Hi-Dry
over molecular sieve — F8049

100ml F8049S
500ml F8049P
1LT F8049M
2½LT F8049L
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+233

(Methyl Cyanide)

CH3CNMW41.05 BP 81.6°C d 0.78 CAS [75-05-8]
Assay >99.9% Water <0.0010%
Contains molecular sieve.

Anisole Hi-Dry — D4063

100ml D4063S
500ml D4063P
1LT D4063M
2½LT D4063L
Wng H:226
P:210-262

(Methoxybenzene, Methyl Phenyl Ether)

CH3OC6H5MW108.14BP154°Cd0.99 CAS [100-66-3]
Assay >99.7% Water <0.0020% Residue <0.0005%

tert-Butanol (see 2-Methylpropan-2-ol)

n-Butanol (see Butan-1-ol)

2-Butanone (see Methyl Ethyl Ketone)

n-Butyl Alcohol (see Butan-1-ol)

tert-Butyl Alcohol (see 2-Methylpropan-2-ol)

n-Butyl Chloride (see 1-Chlorobutane)

tert-Butyl Methyl Ether (see Methyl tert-Butyl Ether)

Butan-1-ol Hi-Dry — D4082

100ml D4082S
500ml D4082P
1LT D4082M
2½LT D4082L
Dgr H:226-302-315-318-335-336
P:210-280f-302+352-304+340-305+351+338-313

(n-Butanol, n-Butyl Alcohol)

CH3(CH2)3OH MW74.12 BP 117.7°C d 0.81 CAS [71-36-3]
Assay >99.8% Water <0.0050% Residue <0.0005%

ROMIL Hi-Dry® Anhydrous Solvents Specifications

n-Butyl Acetate Hi-Dry — D4087

100ml D4087S
500ml D4087P
1LT D4087M
2½LT D4087L
Wng H:226-336-EUH066
P:210

CH3COO(CH2)3CH3 MW116.16 BP126.1°C d 0.88 CAS [123-86-4]
Assay >99.7% Water <0.0025% Residue <0.0001%

Carbon Disulphide Hi-Dry — D4095

100ml D4095S
500ml D4095P
Dgr H:225-361fd-372-319-315
P:210-233-280-302+352-305+351+338-403+235

CS2MW76.13 BP46.2°Cd1.26 CAS[75-15-0]
Assay >99.9% Water <0.0050% Residue <0.0001%

Chlorobenzene Hi-Dry — D4104

100ml D4104S
500ml D4104P
1LT D4104M
2½LT D4104L
Wng H:226-332-315-411
P:210-273-302+352-304+340

C6H5ClMW112.56 BP131.7°C d1.11 CAS [108-90-7]
Assay >99.9% Water <0.0020% Residue <0.0001%

1-Chlorobutane Hi-Dry — D4118

100ml D4118S
500ml D4118P
1LT D4118M
2½LT D4118L
Dgr H:225
P:210

(n-Butyl Chloride)
CH3(CH2)3Cl MW 92.57 BP 78.4°C d 0.88 CAS [109-69-3] Assay >99.9% Water <0.0020% Residue <0.0001%

Chloroform Hi-Dry
stabilised with amylene — D4140

100ml D4140S
500ml D4140P
1LT D4140M
2½LT D4140L
Dgr H:351-361d-331-302-372-319-315
P:261v-280f-304+340-305+351+338-308+313

(Trichloromethane)
CHCl3 MW119.38 BP 61.2°C d 1.48 CAS [67-66-3]
Assay >99.9%* Water <0.0025% Residue <0.0001%
*ex stabiliser
Stabiliser: Amylene ca. 25 ppm

Chloroform Hi-Dry
stabilised with amylene over molecular sieve — F8140

1 00ml F81 40S
500ml F8140P
1LT F8140M
2½LT F8140L
Dgr H:351-361d-331-302-372-319-315
P:261v-280f-304+340-305+351+338-308+313

(Trichlor omethane)
CHCl3 MW119.38 BP 61.2°C d 1.48 CAS [67-66-3]
Assay >99.9%* Water <0.0025%
*ex stabiliser
Stabiliser: Amylene ca. 25 ppm
Contains molecular sieve.

Cyclohexane Hi-Dry — D4156

100ml D4156S
500ml D4156P
1LT D4156M
2½LT D4156L
Dgr H:225-304-315-336-410
P:210-233-240-273-301+310-302+352-331-403+235

C6H12 MW84.16FP 6.5°CBP 80.7°C d 0.78 CAS [110-82-7]
Assay >99.9% Water <0.0005% Residue <0.0001%

ROMIL Hi-Dry® Anhydrous Solvents Specifications

Cyclohexane Hi-Dry
over molecular sieve — *F8156*

100ml F8156S
500ml F8156P
1LT F8156M
2½LT F8156L
Dgr H:225-304-315-336-410
P:210-233-240-273-301+310-302+352-331-403+235

C6H12 MW 84.16 FP 6.5°C BP 80.7°C d 0.78 CAS [110-82-7]

Assay >99.9% Water <0.0005% Contains molecular sieve.

Cyclohexanone Hi-Dry — *D4173*

100ml D4173S
500ml D4173P
1LT D4173M
2½LT D4173L
Wng H:226-332
P:210

C6H10O MW 98.15 FP -47°C BP 155°C d 0.94 CAS [108-94-1] Assay >99.8% Water <0.0050% Residue <0.0005%

1,2-Dichlorobenzene Hi-Dry — *D4178*

100ml D4178S
500ml D4178P
1LT D4178M
2½LT D4178L
Wng H:302-315-319-335-410
P:273-302+352-305+351+338

C6H4Cl2MW 147.00 FP-17°C BP180.5°Cd1.31 CAS [95-50-1] Assay >99.8% Water <0.0020% Residue <0.0005%

Dichloromethane Hi-Dry
stabilised with amylene — *D4202*

100ml D4202S
500ml D4202P
1LT D4202M
2½LT D4202L
Wng H:351
P:281-308+313

(Methylene Dichloride)
CH2Cl2MW84.93BP 39.6°C d 1.33 CAS [75-09-2]
Assay >99.9%* Water <0.0020% Residue <0.0001%
*ex stabiliser
Stabiliser: Amylene ca. 25 ppm

Dichloromethane Hi-Dry
stabilised with amylene over molecular sieve — *F8202*

100ml F8202S
500ml F8202P
1LT F8202M
2½LT F8202L
Wng H:351
P:281-308+313

(Methylene Dichloride)
CH2Cl2MW84.93BP 39.6°C d 1.33 CAS [75-09-2]
Assay >99.9%* Water <0.0020%
*ex stabiliser
Stabiliser: Amylene ca. 25 ppm
Contains molecular sieve.

Dichloromethane Hi-Dry
stabilised with amylene extra dry — *D4203*

100ml D4203S
500ml D4203P
1LT D4203M
2½LT D4203L
Wng H:351
P:281-308+313

(Methylene Dichloride)
CH2Cl2MW84.93BP 39.6°C d 1.33 CAS [75-09-2]
Assay >99.9%* Water <0.0010% Residue <0.0001%
*ex stabiliser
Stabiliser: Amylene ca. 25 ppm

Diethyl Ether Hi-Dry
stabilised with ethanol — *D4219*

100ml D4219S
500ml D4219P
1LT D4219M
2½LT D4219L
Dgr H:224-302-336-EUH019-EUH066
P:210-240-403+235

(C2H5)2O MW 74.12 BP 34.4°C d 0.71 CAS [60-29-7] Assay >99.9%* Water <0.0025% Residue <0.0001% *ex stabiliser
Stabiliser: Ethanol ca. 1% v/v

ROMIL Hi-Dry® Anhydrous Solvents Specifications

Diethyl Ether Hi-Dry
stabilised with ethanol over molecular sieve — *F8219*

100ml F8219S
500ml F8219P
1LT F8219M
2½LT F8219L
Dgr H:224-302-336-EUH019-EUH066
P:210-240-403+235

(C2H5)2O MW 74.12 BP 34.4°C d 0.71 CAS [60-29-7] Assay >99.9%* Water <0.0025%
*ex stabiliser
Stabiliser: Ethanol ca. 1% v/v
Contains molecular sieve.

Diethyl Ether Hi-Dry
stabilised with BHT — *D4220*

100ml D4220S
500ml D4220P
1LT D4220M
2½LT D4220L
Dgr H:224-302-336-EUH019-EUH066
P:210-240-403+235

(C2H5)2O MW 74.12 BP 34.4°C d 0.71 CAS [60-29-7]
Assay >99.9%* Water <0.0025% Residue <0.0001%*
*ex stabiliser
Stabiliser: Butylated hydroxytoluene (BHT) ca. 5 ppm

Diethyl Ether Hi-Dry
stabilised with BHT over molecular sieve — *F8220*

100ml F8220S
500ml F8220P
1LT F8220M
2½LT F8220L
Dgr H:224-302-336-EUH019-EUH066
P:210-240-403+235

(C2H5)2O MW 74.12 BP 34.4°C d 0.71 CAS [60-29-7]
Assay >99.9%* Water <0.0025%
*ex stabiliser
Stabiliser: Butylated hydroxytoluene (BHT) ca. 5 ppm
Contains molecular sieve.

1,2-Dimethoxyethane Hi-Dry — *D4261*

100ml D4261S
500ml D4261P
1LT D4261M
2½LT D4261L
Dgr H:225-360FD-332-EUH019 P:201-210-308+313-403+235

(Ethylene Glycol Dimethyl Ether)
CH3OCH2CH2OCH3 MW90.12 FP -58°C BP 85°C d 0.87 CAS [110-71-4] Assay >99.8% Water <0.0030% Residue <0.0005%

1,2-Dimethoxyethane Hi-Dry
over molecular sieve — *F8261*

100ml F8261S
500ml F8261P
1LT F8261M
2½LT F8261L
Dgr H:225-360FD-332-EUH019 P:201-210-308+313-403+235

(Ethylene Glycol Dimethyl Ether)
CH3OCH2CH2OCH3 MW90.12 FP -58°C BP 85°C d 0.87 CAS [110-71-4] Assay >99.8% Water <0.0030%
Contains molecular sieve.

Dimethylacetamide Hi-Dry — *D4248*

100ml D4248S
500ml D4248P
1LT D4248M
2½LT D4248L
Dgr H:227-360D-312+332-319
P:201-302+352-305+351+338-308+313

CH3CON(CH3)2 MW 87.12 FP -20°C BP 166.1°C d 0.94 CAS [127-19-5] Assay >99.7% Water <0.0050% Residue <0.0005%

Dimethylformamide Hi-Dry
over molecular sieve — *F8252*

100ml F8252S
500ml F8252P
1LT F8252M
2½LT F8252L
Dgr H:360D-226-312+332-319
P:201-210-302+352-305+351+338-308+313

HCON(CH3)2 MW 73.09 BP 153.0°C d 0.95 CAS [68-12-2] Assay >99.9% Water <0.0050%
Contains molecular sieve.

ROMIL Hi-Dry® Anhydrous Solvents Specifications

1,4-Dioxan Hi-Dry

D4297

100ml D4297S
500ml D4297P
1LT D4297M
2½LT D4297L
Dgr H:225-350-319-335-EUH019-EUH066
P:210-281-305+351+338-308+313

C4H8O2 MW 88.11 FP 11.8°C BP 101.3°C d 1.03 CAS [123-91-1] Assay >99.9% Water <0.0025% Residue <0.0001%
Unstabilised

1,4-Dioxan Hi-Dry
over molecular sieve

F8297

100ml F8297S
500ml F8297P
1LT F8297M
2½LT F8297L
Dgr H:225-350-319-335-EUH019-EUH066
P:210-281-305+351+338-308+313

C4H8O2 MW 88.11 FP 11.8°C BP 101.3°C d 1.03 CAS [123-91-1] Assay >99.9% Water <0.0025%
Unstabilised
Contains molecular sieve.

Di-iso-propyl Ether Hi-Dry
stabilised with BHT

D4236

100ml D4236S
500ml D4236P
1LT D4236M
2½LT D4236L
Dgr H:225-336-EUH019-EUH066
P:210-240-403+235

[(CH3)2CH]2O MW 102.18 BP 68.5°C d 0.73 CAS [108-20-3] Assay >99.5%* Water <0.0025% Residue <0.0001%*
*ex stabiliser
Stabiliser: Butylated hydroxytoluene (BHT) ca. 5 ppm

Di-iso-propylethylamine Hi-Dry

D4240

100ml D4240S
500ml D4240P
Dgr H:225-301-314-412
P:210-233-240-273-280-301+330+331-305+351+338-309+310-403+235

(Ethyldi-iso-propylamine)
C8H19NMW 129.25 BP 127°C d 0.76 CAS [7087-68-5]
Assay >99.5% Water <0.0100% Residue <0.0001%

Ethyl Alcohol (see Ethanol)

Ethyldi-iso-propylamine (see Di-iso-propylethylamine)

Ethylene Glycol (see 1,2-Ethanediol)

Ethylene Glycol Dimethyl Ether (see 1,2-Dimethoxyethane)

1,2-Ethanediol Hi-Dry

D4348

100ml D4348S
500ml D4348P
1LT D4348M
2½LT D4348L
Wng H:302

(Ethylene Glycol)
CH2(OH)CH2OH MW 62.07 FP -13°C BP 197.3°C CAS [107-21-1] Assay >99.8% Water <0.0100% Residue <0.0005%

Ethanol absolute Hi-Dry

D4313

100ml D4313S
500ml D4313P
1LT D4313M
2½LT D4313L
Dgr H:225
P:210-233-240-403+235

(Ethyl Alcohol)
C2H5OHMW 46.07 BP 78.3°C d 0.79 CAS [64-17-5]
Assay >99.8% Water <0.0050% Residue <0.0005%

Ethyl Acetate Hi-Dry

D4346

100ml D4346S
500ml D4346P
1LT D4346M
2½LT D4346L
Dgr H:225-319-336-EUH066
P:210-233-240-305+351+338-403+235

CH3COOC2H5 MW 88.11BP77.1°C d 0.90 CAS [141-78-6]
Assay >99.9% Water <0.0025% Residue <0.0001%

ROMIL Hi-Dry® Anhydrous Solvents Specifications

Ethyl Acetate Hi-Dry
over molecular sieve
F8346

100ml F8346S
500ml F8346P
1LT F8346M
2½LT F8346L
Dg r H:225-319-336-EUH066
P:210-233-240-305+351+338-403+235

CH3COOC2H5 MW 88.11 BP 77.1°C d 0.90 CAS [141-78-6] Assay >99.9% Water <0.0025%
Contains molecular sieve.

Heptane fraction Hi-Dry
D4368

100ml D4368S
500ml D4368P
1LT D4368M
2½LT D4368L
Dgr H:225-304-315-336-410
P:210-273-301+310-331-302+352-304+340-403+235

C7H16 BP 85-99°Cd0.69
Water <0.0005% Residue <0.0001%
Comprises ca. 20-50% n-isomer, the remainder being predominantly other isomers of heptane.

n-Heptane 95% Hi-Dry
D4367

100ml D4367S
500ml D4367P
1LT D4367M
2½LT D4367L
Dgr H:225-304-315-336-410
P:210-273-301+310-331-302+352-304+340-403+235

CH3(CH2)5CH3 MW100.21BP94-98°C d 0.68 CAS [142-82-5]
Water <0.0005% Residue <0.0001%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%

n-Heptane 95% Hi-Dry
over molecular sieve
F8367

100ml F8367S
500ml F8367P
1LT F8367M
2½LT F8367L
Dgr H:225-304-315-336-410
P:210-273-301+310-331-302+352-304+340-403+235

CH3(CH2)5CH3 MW 100.21 BP 94-98°C d 0.68 CAS [142-82-5] Water <0.0005%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%
Contains molecular sieve.

n-Heptane 99% Hi-Dry
D4366

100ml D4366S
500ml D4366P
1LT D4366M
2½LT D4366L
Dgr H:225-304-315-336-410
P:210-273-301+310-331-302+352-304+340-403+235

CH3(CH2)5CH3MW 100.21BP 98.4°C d 0.68 CAS [142-82-5]
Assay >99% Water <0.0005% Residue <0.0001%

Hexa ne fraction Hi-Dry
D4390

100ml D4390S
500ml D4390P
1LT D4390M
2½LT D4390L
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

C6H14 BP 65-70°C d 0.66 CAS [73513-42-5]
Water <0.0005% Residue <0.0001%
Comprises ca. 50% n-isomer, the remainder being predominantly other isomers of hexane.

iso-Hexane 95% Hi-Dry
D4388

100ml D4388S
500ml D4388P
1LT D4388M
2½LT D4388L
Dgr H:225-304-315-336-411
P:233-273-301+310-331-302+352-403+235

C6H14 MW 86.18 BP55-63°Cd0.65CAS [107-83-5]
Water <0.0005% Residue <0.0001%
n-Hexane < 5%

ROMIL Hi-Dry® Anhydrous Solvents Specifications

n-Hexane 95% Hi-Dry

D4389

100ml D4389S
500ml D4389P
1LT D4389M
2½LT D4389L
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

CH3(CH2)4CH3 MW 86.18 BP 67-70°C d 0.66 CAS [110-54-3] Water <0.0005% Residue <0.0001%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%

n-Hexane 95% Hi-Dry
over molecular sieve

F8389

100ml F8389S
500ml F8389P
1LT F8389M
2½LT F8389L
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

CH3(CH2)4CH3 MW 86.18 BP 67-70°C d 0.66 CAS [110-54-3] Water <0.0005%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%
Contains molecular sieve.

Methoxybenzene (see Anisole)

Methyl Alcohol (see Methanol)

Methyl Cyanide (see Acetonitrile)

4-Methyl-1,3-dioxolan-2-one (see Propylene Carbonate)

Methylene Dichloride (see Dichloromethane)

4-Methylpentan-2-one (see Methyl iso-Butyl Ketone)

Methyl Phenyl Ether (see Anisole)

Methanol Hi-Dry

D4412

100ml D4412S
500ml D4412P
1LT D4412M
2½LT D4412L
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

(Methyl Alcohol)
CH3OHMW32.04 BP 64.5°C d 0.79 CAS [67-56-1]
Assay >99.9% Water <0.0035% Residue <0.0001%

Methanol Hi-Dry
over molecular sieve

F8412

100ml F8412S
500ml F8412P
1LT F8412M
2½LT F8412L
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

(Methyl Alcohol)
CH3OH MW32.04 BP 64.5°C d 0.79 CAS [67-56-1]
Assay >99.9% Water <0.0035%
Contains molecular sieve.

bis(2-Methoxyethyl) Ether Hi-Dry

D4068

100ml D4068S
500ml D4068P
1LT D4068M
Dgr H:226-360FD-EUH019
P:201-210-308+313

(Diglyme, Diethylene Glycol Dimethyl Ether)
(CH3OCH2CH2)2OMW134.17 BP162°C d 0.94 CAS [111-96-6]
Assay >99.8% Water <0.0030% Residue <0.0005%
Unstabilised

bis(2-Methoxyethyl) Ether Hi-Dry
over molecular sieve

F8068

100ml F8068S
500ml F8068P
1LT F8068M
Dgr H:226-360FD-EUH019
P:201-210-308+313

(Diglyme, Diethylene Glycol Dimethyl Ether)
(CH3OCH2CH2)2OMW134.17BP162°C d 0.94 CAS [111-96-6]
Assay >99.8% Water <0.0020%
Unstabilised
Contains molecular sieve.

ROMIL Hi-Dry® Anhydrous Solvents Specifications

Methyl tert-Butyl Ether Hi-Dry — D4447

100ml D4447S
500ml D4447P
1LT D4447M
2½LT D4447L
Dgr H:225-315
P:210-233-302+352-403+235

(tert-Butyl Methyl Ether)
CH3OC(CH3)3 MW88.15 BP 55.4°C d 0.74 CAS [1634-04-4] Assay >99.7% Water <0.0050% Residue <0.0001%

Methyl iso-Butyl Ketone Hi-Dry — D4445

100ml D4445S
500ml D4445P
1LT D4445M
2½LT D4445L
Dgr H:225-332-319-336-351-EUH066
P:210-305+351+338-304+340

(4-Methylpentan-2-one)
(CH3)2CHCH2COCH3MW 100.16 BP 117.4°C d 0.80 CAS [108-10-1]
Assay >99.7% Water <0.0050% Residue <0.0005%

Methylcyclohexane Hi-Dry — D4465

100ml D4465S
500ml D4465P
Dgr H:225-304-315-336-411
P:273-301+310-331-302+352-403+235

C7H14 MW 98.19 BP 101°C d 0.77 CAS [108-87-2]
Assay >99.9% Water <0.0005% Residue <0.0001%

Methylcyclopentane 95% Hi-Dry — D4473

100ml D4473S
500ml D4473P
1LT D4473M
Dgr H:225-304
P:210-260v-262-301+310-331-403+235

C6H12 MW 84.16 BP 69-73°C d 0.75 CAS [96-37-7]
Water <0.0005% Residue <0.0001%
Comprises ca. 95% methylcyclopentane, the remainder being predominantly other C6H12 isomers.

Methyl Ethyl Ketone Hi-Dry — D4494

100ml D4494S
500ml D4494P
1LT D4494M
2½LT D4494L
Dgr H:225-319-336-EUH066
P:210-305+351+338-403+233

(2-Butanone)
CH3CH2COCH3 MW 72.11 BP 79.6°C d 0.80 CAS [78-93-3] Assay >99.8% Water <0.0050% Residue <0.0001%

N-Methyl-2-pyrrolidone Hi-Dry — D4565

100ml D4565S
500ml D4565P
1LT D4565M
2½LT D4565L
Dgr H:360D-315-319-335
P:201-302+352-305+351+338-308+313

CH2(CH2)2CONCH3 MW 99.13 BP 202.0°C d 1.03 CAS [872-50-4] Assay >99.5% Water <0.0075%

N-Methyl-2-pyrrolidone Hi-Dry over molecular sieve — F8564

100ml F8564S
500ml F8564P
1LT F8564M
2½LT F8564L
Dgr H:360D-315-319-335
P:201-302+352-305+351+338-308+313

CH2(CH2)2CONCH3 MW 99.13 BP 202.0°C d 1.03 CAS [872-50-4] Assay >99.5% Water <0.0050%
Contains molecular sieve.

2-Methyltetrahydrofuran Hi-Dry — D4536

100ml D4536S
500ml D4536P
1LT D453 6M
2½LT D4536L
Dgr H:225-319-335-EUH019
P:210-233-240-305+351+338-403+235

CH3C4H7O MW 86.13 BP 80°C d 0.86 CAS [96-47-9]
Assay >99.8% Water <0.0025% Residue <0.0001%
Unstab ilised

ROMIL Hi-Dry® Anhydrous Solvents Specifications

2-Methyltetrahydrofuran Hi-Dry

stabilised with BHT *D4537*

100ml D4537S
500ml D4537P
1LT D4537M
2½LT D4537L
Dgr H:225-319-335-EUH019
P:210-233-240-305+351+338-403+235

CH3C4H7O MW 86.13 BP 80°C d 0.86 CAS [96-47-9]
Assay >99.8%* Water <0.0025% Residue <0.0001%*
*ex stabiliser
Stabiliser: Butylated hydroxytoluene (BHT) ca. 250 ppm

n-Nonane 95% Hi-Dry *D4568*

100ml D4568S
500ml D4568P
1LT D4568M
2½LT D4568L
Dgr H:226-304
P:210-301+310-331

CH3(CH2)7CH3 MW128.26BP146-150°C d 0.72 CAS [111-84-2]
Water <0.0005% Residue <0.0001%

iso-Octane (see 2,2,4-Trimethylpentane)

Perchloroethylene (see Tetrachloroethylene)

Petroleum Distillate (see Petroleum Ether)

Petroleum Spirit (see Petroleum Ether)

n-Propanol (see Propan-1-ol)

iso-Propanol (see Propan-2-ol)

Propanone (see Acetone)

n-Propyl Alcohol (see Propan-1-ol)

iso-Propyl Alcohol (see Propan-2-ol)

n-Pentane 95% Hi-Dry *D4571*

100ml D4571S
500ml D4571P
1LT D4571M
2½LT D4571L
Dgr H:225-304-336-411-EUH066
P:273-301+310-331-403+235

CH3(CH2)3CH3 MW72.15 BP35.5-37°C d 0.63 CAS [109-66-0]
Water <0.0005% Residue <0.0001%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%

Petroleum Ether 30-40°C Hi-Dry *D4600*

100ml D4600S
500ml D4600P
1LT D4600M
2½LT D4600L
Dgr H:225-304-336-411-EUH066
P:210-243-301+310-303+361+353-405-501

(Petroleum Distillate, Petroleum Spirit)
BP 30-40°C d0.62 CAS[109-66-0]
Water <0.0005% Residue <0.0001%

Petroleum Ether 40-60°C Hi-Dry *D4601*

100ml D4601S
500ml D4601P
1LT D4601M
2½LT D4601L
Dgr H:225-304-336-411-EUH066
P:210-233-243-273-280-301+310-303 +361+3 53-304+340- 331 - 403+235

(Petroleum Distillate, Petroleum Spirit)
BP 40-60°C d0.64 CAS[8032-32-4]
Water <0.0005% Residue <0.0001%

Petroleum Ether 60-80°C Hi-Dry *D4602*

100ml D4602S
500ml D4602P
1LT D4602M
2½LT D4602L
Dgr H:225-304-315-336-411
P:210-243-273-280-301+310-331-403+235

(Petroleum Distillate, Petroleum Spirit)
BP 60-80°C d0.67
Water <0.0005% Residue <0.0001%

ROMIL Hi-Dry® Anhydrous Solvents Specifications

Petroleum Ether 80-100°C Hi-Dry — D4603

100ml D4603S
500ml D4603P
1LT D4603M
2½LT D4603L
Dgr H:225-304-315-336-411
P:210-273-280-260v-301+310-331-403+235

(Petroleum Distillate, Petroleum Spirit)
BP80-100°Cd0.69CAS [64742-49-0]
Water <0.0005% Residue <0.0001%

Propan-1-ol Hi-Dry — D4623

100ml D4623S
500ml D4623P
1LT D4623M
2½LT D4623L
Dgr H:225-318-336
P:210-233-280f-305+351+338-313

(n-Propanol, n-Propyl Alcohol)
CH3CH2CH2OHMW 60.10 BP 97.2°C d 0.80 CAS [71-23-8]
Assay >99.9% Water <0.0050% Residue <0.0005%

Propan-2-ol Hi-Dry — D4625

100ml D4625S
500ml D4625P
1LT D4625M
2½LT D4625L
Dgr H:225-319-336
P:210-233-305+351+338

(iso-Propanol, iso-Propyl Alcohol)
(CH3)2CHOH MW60.10BP82.2°C d 0.78 CAS [67-63-0]
Assay >99.9% Water <0.0050% Residue <0.0005%

Propan-2-ol Hi-Dry over molecular sieve — F8625

100ml F8625S
500ml F8625P
1LT F8625M
2½LT F8625L
Dgr H:225-319-336
P:210-233-305+351+338

(iso-Propanol, iso-Propyl Alcohol)
(CH3)2CHOH MW60.10BP82.2°C d 0.78 CAS [67-63-0]
Assay >99.9% Water <0.0050%
Contains molecular sieve.

Propylene Carbonate Hi-Dry — D4645

100ml D4645S
500ml D4645P
1LT D4645M
Wng H:319
P:305+351+338

(4-Methyl-1,3-dioxolan-2-one)
CH3CHOCOOCH2MW102.09 BP 241.7°C d 1.20 CAS [108-32-7]
Assay >99.8% Water <0.0050% Residue <0.0001%

Pyridine Hi-Dry over molecular sieve — F8652

100ml F8652S
500ml F8652P
1LT F8652M
2½LT F8652L
Dgr H:225-302+312+332-315-319
T P:210-302+352-304+340-305+351+338-403+235

C5H5N MW 79.10 BP 115.3°C d 0.98 CAS [110-86-1] Assay >99.8% Water <0.0050%
Contains molecular sieve.

Tetramethylene Sulphone (see Sulpholane)

Trichloromethane (see Chloroform)

Tetrachloroethylene Hi-Dry — D4702

100ml D4702S
500ml D4702P
1LT D4702M
2½LT D4702L
Wng H:315-317-319-336-351-411
P:273-281-302+352-305+351+338-308+313

(Perchloroethylene)
CCl2CCl2MW 165.83 BP 121.1°C d 1.62 CAS [127-18-4]
Assay >99.9% Water <0.0020% Residue <0.0001%
Unstabilised

ROMIL Hi-Dry® Anhydrous Solvents Specifications

Tetrahydrofuran Hi-Dry

D4718

100ml D4718S
500ml D4718P
1LT D4718M
2½LT D4718L
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2OMW 72.11BP 66°Cd 0.89 CAS [109-99-9]
Assay >99.9% Water <0.0025% Residue <0.0001%
Unstabilised

Tetrahydrofuran Hi-Dry
over molecular sieve

F8717

100ml F8717S
500ml F8717P
1LT F8717M
2½LT F8717L
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2O MW 72.11 BP 66°C d 0.89 CAS [109-99-9] Assay >99.9% Water <0.0025%
Unstabilised
Contains molecular sieve.

Tetrahydrofuran Hi-Dry
stabilised with BHT

D4719

100ml D4719S
500ml D4719P
1LT D4719M
2½LT D4719L
D gr H:2 25-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2O MW 72.11 BP 66°C d 0.89 CAS [109-99-9] Assay >99.9%* Water <0.0025% Residue <0.0001%*
*ex stabiliser
Stabiliser: Butylated hydroxytoluene (BHT) ca. 250 ppm

Toluene Hi-Dry

D4771

100ml D4771S
500ml D4771P
1LT D4771M
2½LT D4771L
Dgr H:225-304-315-336-361d-373
P:210-240-301+310-331-302+352-403+235

C6H5CH3MW 92.14 BP110.6°C d 0.87 CAS [108-88-3]
Assay >99.9% Water <0.0010% Residue <0.0001%

Toluene Hi-Dry
over molecular sieve

F8771

100ml F8771S
500ml F8771P
1LT F8771M
2½LT F8771L
Dgr H:225-304-315-336-361d-373
P:210-240-301+310-331-302+352-403+235

C6H5CH3 MW 92.14 BP 110.6°C d 0.87 CAS [108-88-3] Assay >99.9% Water <0.0010%
Contains molecular sieve.

Triethylamine Hi-Dry

D4763

100ml D4763S
500ml D4763P
1LT D4763M
Dgr H:225-302+312+332-314-335
P:210-280-301+330+331-302+352-304+340-305+351+338-309+310-403+235

(CH3CH2)3N MW101.19BP88.9°Cd 0.73 CAS [121-44-8]
Assay >99.8% Water <0.0050% Residue <0.0005%

Triethylamine Hi-Dry
over molecular sieve

F8763

100ml F8763S
500ml F8763P
1LT F8763M
Dgr H:225-302+312+332-314-335
P:210-280-301+330+331-302+352-304+340-305+351+338-309+310-403+235

(CH3CH2)3N MW 101.19 BP 88.9°C d 0.73 CAS [121-44-8] Assay >99.8% Water <0.0050%
Contains molecular sieve.

ROMIL Hi-Dry® Anhydrous Solvents Specifications

2,2,4-Trimethylpentane Hi-Dry

D4901

100ml D4901S
500ml D4901P
1LT D4901M
2½LT D4901L

Dgr H:225-304-315-336-410
P:210-233-240-273-301+310-331-302+352-304+340-403+235

(iso-Octane)

(CH3)3CCH2CH(CH3)2 MW 114.23 BP 99.2°C d 0.69 CAS [540-84-1] Assay >99.75% Water <0.0005% Residue <0.0001%

2,2,4-Trimethylpentane Hi-Dry
over molecular sieve

F8901

100ml F8901S
500ml F8901P
1LT F8901M
2½LT F8901L

Dgr H:225-304-315-336-410
P:210-233-240-273-301+310-331-302+352-304+340-403+235

(iso-Octane)

(CH3)3CCH2CH(CH3)2 MW 114.23 BP 99.2°C d 0.69 CAS [540-84-1] Assay >99.75% Water <0.0005%
Contains molecular sieve.

Xylene mixed isomers Hi-Dry

D4982

100ml D4982S
500ml D4982P
1LT D4982M
2½LT D4982L

Wng H:226-312+332-315 P:210-302+352-304+340

C6H4(CH3)2 MW 106.17 BP138-142°Cd0.86CAS [1330-20-7]
Water <0.0010% Residue <0.0001%
Comprises 3 isomers and ethylbenzene
Assay (total C8H10 isomers) >98.5%
Ethylbenzene typically <3%
Toluene typically <0.5%
Methylethylbenzene typically <0.5%

Xylene mixed isomers Hi-Dry
over molecular sieve

F8982

100ml F8982S
500ml F8982P
1LT F8982M
2½LT F8982L

Wng H:226-312+332-315 P:210-302+352-304+340

C6H4(CH3)2 MW 106.17 BP 138-142°C d 0.86 CAS [1330-20-7] Water <0.0010%
Comprises 3 isomers and ethylbenzene
Assay (total C8H10 isomers) >98.5%
Ethylbenzene typically <3%
Toluene typically <0.5%
Methylethylbenzene typically <0.5%
Contains molecular sieve.

ROMIL Hi-Dry® KF Karl Fischer Reagents and Calibrants Specifications

pyridine-free reagents for water determination

Benzoic Acid Hi-Dry KF

K8114

500g K8114P
Wng H:302-319
P:305+351+338

C6H5COOH MW122.12CAS [65-85-0]
Water <0.2%
Application: Bu er reagent for KF titration

Chloroform Hi-Dry KF

stabilised with amylene

K8140

1LT K8140M
Dgr H:351-361d-331-302-372-319-315
P:261v-280f-304+340-305+351+338-308+313

(Trichloromethane)
CHCl3 MW 119.38 BP 61.2°C d 1.48 CAS [67-66-3] Water <0.0100%
Stabiliser: Amylene ca. 25 ppm
Application: Solvent for KF sample dissolution

Formamide Hi-Dry KF

K8351

1LT K8351M
Dgr H:360D
P:201-308+313

HCONH2 MW 45.04FP2.5°CBP210.5°C d 1.13 CAS [75-12-7]
Water <0.0200%
Protect from atmospheric moisture.
Replace cap tightly immediately after use.
Store in dark.
Application: Solvent for KF sample dissolution

Karl Fischer electrolyte A Hi-Dry KF

K3035

500ml K3035P
1LT K3035M
Dgr H:225-301+311+331-314-360D-370-373
P:201-210-280-302+352-309+310-403+235

Use in conjunctionwithKarlFischerelectrolyteC(ROMIL K3146) for cells with diaphragm.
Protect from atmospheric moisture.
Application: Pyridine-free reagent for coulometric KF titration without diaphragm and anode reagent for cells with diaphragm

Karl Fischer electrolyte AF Hi-Dry KF

for oils and fats

K3072

100ml K3072S
500ml K3072P
Dgr H:225-301+311+331-314-351-360D-370-372
P:201-210-260-280-305+351+338-308+313

Use in conjunction with Karl Fischer electrolyte C (ROMIL K3146).
Protect from atmospheric moisture.
Application: Pyridine-free anode reagent (chloroform/xylene-based) for coulometric KF titration of re ned and crude oils and fats

Karl Fischer electrolyte AH Hi-Dry KF

for long-chain hydrocarbons

K3041

500ml K3041P
Dgr H:225-301+311+331-314-360D-335-370-411
P:201-210-273-280-302+352-309+310-403+235

Use in conjunction with Karl Fischer electrolyte C (ROMIL K3146) for cells with diaphragm.
Protect from atmospheric moisture.
Application: Pyridine-free reagent for coulometric KF titration of long-chain hydrocarbons without diaphragm and anode reagent with diaphragm

Karl Fischer electrolyte AK Hi-Dry KF

for aldehydes & ketones

K3068

500ml K3068P
Dgr H:226-302-331-315-318-336-351-360FD-372
P:201-210-280-301+330+331-302+352-304+340-305+351+338-308+313

Use in conjunction with Karl Fischer electrolyte CK (ROMIL K3179).
Protect from atmospheric moisture.
Application: Pyridine-free anode reagent for coulometric KF titration of aldehydes and ketones

Karl Fischer electrolyte AO Hi-Dry KF

K3054

500ml K3054P
Dgr H:225-301+311+331-314-360D-370-373
P:201-210-280-302+352-309+310-403+235

Use in conjunctionwithKarlFischerelectrolyteC(ROMILK3146) for cells with diaphragm.
Protect from atmospheric moisture.
Application: Pyridine-free reagent for coulometric KF titration with oven without diaphragm and anode reagent with diaphragm

ROMIL Hi-Dry® KF Karl Fischer Reagents and Calibrants Specifications

pyridine-free reagents for water determination

Karl Fischer electrolyte AP Hi-Dry KF — K3087

500ml K3087P
Dgr H:225-301+311+331-314-351-360D-370-372
P:201-210-280-304+340-305+351+338-308+313-403+235

Usein conjunctionwithKarlFischerelectrolyteC(ROMIL K3146).
Protect from atmospheric moisture.
Application: Pyridine-free anode reagent for coulometric KF titration with diaphragm

Karl Fischer electrolyte AR Hi-Dry KF — K3029

500ml K3029P
Dgr H:225-301+311+331-318-360D-370-373
P:201-210-260-280-301+310-305+351+338

Protectfrom atmospheric moisture.
Application: Pyridine-free reagent for coulometric KF titration without diaphragm

Karl Fischer electrolyte C Hi-Dry KF — K3146

25ml K3146V
50ml K3146T
10x5ml K3146Q
Dgr H:225-301+311+331-315-318-370-373
P:210-280-302+352-305+351+338-309+310-403+235

Usein conjunctionwithsuitableKarlFischerelectrolyteA* for cells with diaphragm.
Protect from atmospheric moisture.
Application: Pyridine-free cathode reagent for coulometric KF titration with diaphragm

Karl Fischer electrolyte CK Hi-Dry KF
for aldehydes & ketones — K3179

50ml K3179T
Dgr H:312-314-360Df
P:201-280-302+352-305+351+338-308+313

Use in conjunction with Karl Fischer electrolyte AK (ROMIL K3068).
Protect from atmospheric moisture.
Application: Pyridine-free cathode reagent for coulometric KF titration of aldehydes and ketones

Karl Fischer reagent VC2 Hi-Dry KF
pyridine-free composite — K5102

1LT K5102M
2½LT K5102L
Dgr H:314-332-360D-401
P:201-273-280c-304+340-305+351+338-308+310

Nominal titre 1.0 ml = 2.0 mg ±5% H2O @ 20°C
Calibrate before each use.
Application: Pyridine-free ready to use reagent for volumetric KF titration

Karl Fischer reagent VC5 Hi-Dry KF
pyridine-free composite — K5105

500ml K5105P
1LT K5105M
2½LT K5105L
Dgr H:314-332-360D-401
P:201-273-280c-304+340-305+351+338-308+310

Nominal titre 1.0 ml = 5.0 mg ±5% H2O @ 20°C
Calibrate before each use.
Application: Pyridine-free ready to use reagent for volumetric KF titration

Karl Fischer reagent VCK5 Hi-Dry KF
pyridine-free composite for aldehydes & ketones — K5235

1LT K5235M
Dgr H:314-332-360D-401
P:201-273-280c-304+340-305+351+338-308+310

Nominal titre 1.0 ml = 5.0 mg ±5% H2O @ 20°C
Calibrate before each use.
Application: Pyridine-free ready to use reagent for volumetric KF titration of aldehydes and ketones

Karl Fischer solvent VK Hi-Dry KF
for aldehydes & ketones — K5246

1LT K5246M
Dgr H:300+310+330-351-361d-372-315-319
P:201-260v-280f-302+350-304+340-305+351+338-308+313

Use in conjunction with Karl Fischer reagent VCK5 (ROMIL K5235).
Protect from atmospheric moisture.
Application: Solvent for volumetric KF titration of aldehydes and ketones

ROMIL Hi-Dry® KF Karl Fischer Reagents and Calibrants Specifications

pyridine-free reagents for water determination

Karl Fischer solvent VKM Hi-Dry KF

for aldehydes & ketones — *K5257*

1LT K5257M
Dgr H:226-302-331-315-318-336-351-360D-372
P:201-210-280-304+340-305+351+338-308+313-403+233

Use in conjunction with Karl Fischer reagent VCK5 (ROMIL K5235).
Protect from atmospheric moisture.
Application: Solvent for volumetric KF titration of aldehydes and ketones

Karl Fischer solvent VKS Hi-Dry KF

for aldehydes & ketones — *K5268*

500ml K5268P
1LT K5268M
Dgr H:226-315-318-360D-336
P:201-210-280-304+340-305+351+338-308+313

Use in conjunction with Karl Fischer reagent VCK5 (ROMIL K5235).
Protect from atmospheric moisture.
Application: Solvent (halogenated hydrocarbon-free) for volumetric KF titration of aldehydes and ketones

Karl Fischer solvent VOC Hi-Dry KF

for oils and fats — *K5373*

1LT K5373M
Dgr H:226-302+312-331-315-319-351-361d-370-372
P:201-210-261v-280f-304+340-305+351+338-308+313

Use in conjunction with Karl Fischer reagent VC? (ROMIL K510?).
Protect from atmospheric moisture.
Application: Solvent (chloroform-based) for volumetric KF titration of oils and fats

Karl Fischer solvent VOH Hi-Dry KF

for oils and fats — *K5352*

1LT K5352M
Dgr H:225-301+311+331-319-370
P:210-280f-302+352-309+310-403+235

Use in conjunction with Karl Fischer reagent VC? (ROMIL K510?).
Protect from atmospheric moisture.
Application: Solvent (hexan-1-ol-based) for volumetric KF titration of oils and fats

Karl Fischer solvent VOX Hi-Dry KF

for crude oils — *K5331*

1LT K5331M
2½LT K5331L
Dgr H:225-302-311+331-314-351-360D-370-372
P:201-210-280-304+340-305+351+338-308+313

Use in conjunction with Karl Fischer reagent VC? (ROMIL K510?).
Protect from atmospheric moisture.
Application: Solvent (xylene-based) for volumetric KF titration of crude oils

Karl Fischer solvent VS Hi-Dry KF

K6200

1LT K6200M
2½LT K6200L
Dgr H:225-301+311+331-314-360D-370
P:201-210-280-302+352-309+310-403+235

Use in conjunction with Karl Fischer titrant VT? (ROMIL K621?).
Protect from atmospheric moisture.
Replace cap tightly immediately after use.
Application: Solvent component (methanol-based) of pyridine-free 2-part system for volumetric KF titration (general purpose)

Karl Fischer solvent VSA1.67 Hi-Dry KF

acid bu er — *K6717*

1LT K6717M
Dgr H:225-301+311+331-314-360D-370
P:201-210-280f-302+352-309+310-403+235

d 0.79
Bu er capacity 1.67 mmol acid/ml
Protect from atmospheric moisture.
Replace cap tightly immediately after use.
Application: Bu er solvent for volumetric KF titration

Karl Fischer solvent VSA5 Hi-Dry KF

acid bu er — *K6735*

500ml K6735P
1LT K6735M
Dgr H:225-301+311+331-314-360D-370
P:201-210-280-302+352-309+310-403+235

d 0.79
Bu er capacity 5 mmol acid/ml
Protect from atmospheric moisture.
Replace cap tightly immediately after use.
Application: Bu er solvent for volumetric KF titration

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ROMIL Hi-Dry® KF Karl Fischer Reagents and Calibrants Specifications

pyridine-free reagents for water determination

Karl Fischer solvent VSO Hi-Dry KF

for oils — *K6524*

1LT K6524M
Dgr H:225- 301+311 +331-314-3 60D - 370
P:201-210-280-302+352-309+310-403+235

Use in conjunction with Karl Fischer titrant VT? (ROMIL K621?).
Protect from atmosp heric moisture .
Replace cap tightly immediately after use.
Application: Solvent component of pyridine-free 2-part system for volumetric KF titration of oils

Karl Fischer solvent VSOF Hi-Dry KF

for oils and fats — *K6586*

1LT K6586M
2½LT K6586L
Dgr H:226-302+312-331-314-351-360D-370-372
P:201-210-261v-280f-304+340-305+351+338-308+313

Use in conjunction with Karl Fischer titrant VT? (ROMIL K621?).
Protect from atmospheric moisture.
Replace cap tightly immediately after use.
Application: Solvent component (chloroform-based) of pyridine-free 2-part system for volumetric KF titration of oils and fats

Karl Fischer titrant VT2 Hi-Dry KF — *K6212*

500ml K6212P
1LT K6212M
2½LT K6212L
Dgr H:225-301+311+331-370-401
P:210-280f-302+352-309+310-403+235

Nominal titre 1.00 ml = 2.00 mg ±1% H2O @ 20°C Use in conjunction with Karl Fischer solvent VS (ROMIL K6200).
Protect from atmospheric moisture.
Replace cap tightly immediately after use.
Application: Titrant component of pyridine-free 2-part system for volumetric KF titration

Karl Fischer titrant VT5 Hi-Dry KF — *K6215*

500ml K6215P
1LT K6215M
2½LT K6215L
Dgr H:225-301+311+331-370-401
P:210-280f-302+352-309+310-403+235

Nominal titre 1.00 ml= 5.00 mg±0.5% H2O @ 20°C Use in conjunction with Karl Fischer solvent VS (ROMIL K6200).
Protect from atmospheric moisture.
Replace cap tightly immediately after use.
Application: Titrant component of pyridine-free 2-part system for volumetric KF titration

Karl Fischer calibrant BX5 Hi-Dry KF

H2O 5 mg/ml (water in m-xylene/butan-1-ol) — *K7473*

100ml K7473S
500ml K7473P
1LT K7473M
Dgr H:226-302+312+332-315-318-335-336
P:210-280-302+352-304+340-305+351+338

H2O 5.00 mg/ml (5000 ppm) ±0.02 mg/ml
Matrix: m-Xylene/Butan-1-ol
Protect from atmospheric moisture.
Application: Reference material for KF titration (non-hygroscopic matrix)
SI-traceable through NIST certi ed reference material

Karl Fischer calibrant M5 Hi-Dry KF

H2O 5 mg/ml (water in methanol) — *K7582*

100ml K7582S
500ml K7582P
1LT K7582M
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

d 0.79
H2O 5 mg/ml (5000 ppm) ± 0.02 mg/ml
Matrix: Methanol
Protect from atmospheric moisture.
Application: Reference material for KF titration
SI-traceablethrough NISTcerti ed referencematerial
Supplied with Hi-Dry septum seal cap.

Karl Fischer calibrant PC Hi-Dry KF

H2O 5.55% (potassium citrate) — *K7755*

10g K7755X

K3C6H5O7.H2O MW 324.41 CAS [6100-05-6]
H2O 5.55% ±0.05%
Dry at not greater than 105°C for 1 hour before use.
Cool in desiccator.
Application: Reference materialfor KFtitration withoven

Karl Fischer calibrant ST Hi-Dry KF

H2O 15.66% (sodium tartrate) — *K7641*

100g K7641S

Na2C4H4O6.2H2O MW 230.08 d 1.82 CAS [6106-24-7]
H2O 15.66% ±0.05%
Dry at not greater than 105°C for 1 hour before use.
Cool in desiccator.
Application:Reference material for KFtitration

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ROMIL Hi-Dry® KF Karl Fischer Reagents and Calibrants Specifications

pyridine-free reagents for water determination

Karl Fischer calibrant WS1 Hi-Dry KF

H2O 1 mg/g — K7129

100ml K7129S
Wng H:226
P:210-262

d 1.00
Nominal concentration H2O 1.00 mg/g ±1% @ 20°C
Matrix: Anisole/Propylene Carbonate
Protect from atmospheric moisture.
Application: Reference material for KF titration
SI-traceablethrough NISTcerti ed referencematerial
SuppliedwithHi-Dry septumseal cap.

Karl Fischer ca lib rant W S1 Hi-Dry KF

H2O 1 mg/g ampoule pack — K7142

10x5ml K7142Q
Wng H:226
P:210-262

d 1.00
Nominal concentration H2O 1.00 mg/g ±2% @ 20°C
Matrix: Anisole/Propylene Carbonate
Application: Reference material for KF titration
SI-traceable throughNISTcerti edreference material
Suppliedin packcontaining10x5mlsealed glassampoules.

Karl Fischer calibrant WS10 Hi-Dry KF

H2O 10 mg/g — K7210

100ml K7210S
Dgr H:226-315-318-335-336
P:210-280f-302+352-304+340-305+351+338

d 1.00
Nominal concentration H2O 10.0 mg/g ±1% @ 20°C
Matrix: Propylene Carbonate/p-Xylene/Butan-1-ol
Protect from atmospheric moisture.
Application: Reference material for KF titration
SI-traceablethrough NISTcerti ed referencematerial
SuppliedwithHi-Dry septumseal cap.

Karl Fischer calibrant WS10 Hi-Dry KF

H2O 10 mg/g ampoule pack — K7264

10x10ml K7264Q
Dgr H:226-315-318-335-336
P:210-280f-302+352-304+340-305+351+338

d 1.00
Nominal concentration H2O 10.0 mg/g ±1% @ 20°C
Matrix: Propylene Carbonate/p-Xylene/Butan-1-ol
Application: Reference material for KF titration
SI-traceable through NIST certi ed reference material Supplied in pack containing 10 x 10ml sealed glass ampoules.

Karl Fischer calibrant X0.1 Hi-Dry KF

H2O 0.1 mg/g (water in m-xylene) — K7362

100ml K7362S
Wng H:226-312+332-315 P:210-302+352-304+340

d 0.86
H2O 0.100 mg/g ±2% @ 20°C
Matrix: m-Xylene
Protect from atmospheric moisture.
Application: ReferencematerialforKFtitration
SI-traceable through NIST certi ed reference material Supplied with Hi-Dry septum seal cap.

Karl Fischer calibrant X0.1 Hi-Dry KF

H2O 0.1 mg/g (water in m-xylene) ampoule pack — K7381

10x5ml K7381Q
Wng H:226-312+332-315 P:210-302+352-304+340

d 0.86
H2O 0.100 mg/g ±5% @ 20°C
Matrix: m-Xylene
Protect from atmospheric moisture.
Application: ReferencematerialforKFtitration
SI-traceable through NIST certi ed reference material Supplied in pack containing 10 x 5ml sealed glass ampoules.

Methyl Alcohol (see Methanol)

Methanol Hi-Dry KF

K8408

1LT K8408M
2½LT K8408L
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

(Methyl Alcohol)
CH3OH MW 32.04 BP 64.5°C d 0.79 CAS [67-56-1]
Water <0.0100%
Protect from atmospheric moisture.
Replace cap tightly immediately after use.
Application: General purpose solvent for KF sample dissolution

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ROMIL Hi-Dry® KF Karl Fischer Reagents and Calibrants Specifications

pyridine-free reagents for water determination

Molecular Sieve 3A Hi-Dry KF

pellets 1.6mm — *K8678*

500g K8678P
1KG
K8678M
P:260d

d 0.64 CAS [1318-02-1]
Crystalline potassium aluminosilicate
Pore diameter about 3 Angstroms
Pellet size about 1.6mm (1/16 inch)
Protect from atmospheric moisture.
Application: Packing material for drying tubes in KF titration

Salicylic Acid Hi-Dry KF

K8715

500g K8715P
Dgr H:302-318
P:280c-305+351+338-313

C6H4(OH)COOHMW138.12 CAS[69-72-7]
Water <0.2%
Protect from atmospheric moisture. Replace cap tightly immediately after use.
Application: Bu er reagent for KF titration

Xylene Hi-Dry KF

K8982

1LT K8982M
Wng H:226-312+332-315 P:210-302+352-304+340

C6H4(CH3)2 MW106.17BP 138-142°C d 0.86 CAS [1330-20-7]
Water <0.0050%
Comprises 3 isomers and ethylbenzene
Application: Solvent for KF sample dissolution

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ROMIL-SpR™ Super Purity Reagents Specifications

featuring ion-pair & buffer reagents, additives for LC-MS

Ammonium Hydroxide solution (see Ammonia solution)

Ammonium Phosphate monobasic (see Ammonium di-Hydrogen Phosphate)

Acetic Acid SpR — HA016

100ml HA016S
500ml HA016P
1LT HA016M
Dgr H:226-314
P:280c-301+330+331-305+351+338-307+310

(Acetic Acid glacial)
CH3COOH MW 60.05 FP 16.7°C BP 117.9°C d 1.05 CAS [64-19-7]
Assay >99.8% Water <0.1% Residue <0.0001%
UV: 252nm >10%; 260nm >50%; 270nm >80%; 280nm >95%; 300-400nm >99%
Fluorescence (0.1% aqueous, as quinine): 254nm <1 ppb; 365nm <1 ppb
Suitability for HPLC passes test
Suitability for LC-MS passes test
Trace ionic impurities (0.1% aqueous):
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Application: HPLCasbu erreagent,LC-MS as additive

Ammonia solution SpR — HB059

50ml HB059T
100ml HB059S
Dgr H:314-335
P:280c-301+330+331-304+340-305+351+338-309+310

(Ammonium Hydroxide solution)
NH3 MW 17.03 d0.92 CAS [1336-21-6]
Assay 20-22% Residue <0.0002%
UV (0.1% aqueous): 225nm >20%; 235nm >50%; 240nm >80%; 250nm >95%; 260-400nm >99%
Fluorescence (0.1% aqueous, as quinine): 254nm <1 ppb; 365nm <1 ppb
Suitability for HPLC passes test
Suitability for LC-MS passes test
Trace ionic impurities (0.1% aqueous):
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Application: HPLC as bu er reagent, LC-MS as additive
Elemental impuritiesspeci ed at timeof manufacture.

Ammonium Acetate SpR — HR079

100g HR079S
500g HR079P

CH3COONH4MW77.08CAS [631-61-8]
Assay >99%*
UV (0.1% aqueous): 210nm >10%; 220nm >50%; 230nm >80%; 235nm >95%; 245-400nm >99%
*on anhydrous substance
Fluorescence (0.1% aqueous, as quinine): 254nm <1 ppb; 365nm <1 ppb
Suitability for HPLC passes test
Suitability for LC-MS passes test
Chloride <0.0005%
Sulphate <0.001%
Nitrate <0.001%
Trace ionic impurities (0.1% aqueous):
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Deliquescent, hygroscopic. Replace cap promptly after use.
Application: HPLCasbu er reagent, LC-MSas additive

Ammonium Carbonate SpR — HR143

100g HR143S
500g HR143P
Dgr H:302-315-318
P:280e-302+352-305+351+338-313

NH4HCO3+NH2COONH4 MW157.13d 0.90CAS [8000-73-5]
UV: 230nm >10%; 235nm >50%; 240nm >80%; 250nm >95%; 310-400nm >99%
Mixture of ammonium hydrogen carbonate and ammonium carbamate in approximately equimolar proportions.
UV measured as 1M solution in water
Decomposes on exposure to air. Replace cap promptly after use. Application: HPLC as bu er reagent

Ammonium Formate SpR — HR305

100g HR305S
500g HR305P
Wng H:315-319-335
P:261d-305+351+338

HCOONH4MW63.06 d1.26 CAS [540-69-2]
Assay >98%
UV (0.1% aqueous): 215nm >10%; 225nm >50%; 230nm >80%; 240nm >95%; 245-400nm >99%
Fluorescence (0.1% aqueous, as quinine): 254nm <1 ppb; 365nm <1 ppb
Suitability for HPLC passes test
Suitability for LC-MS passes test
Chloride <0.0005%
Sulphate <0.005%
Trace ionic impurities (0.1% aqueous):
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Deliquescent, hygroscopic. Replace cap promptly after use.
Application: HPLC as bu er reagent, LC-MS as additive

ROMIL-SpR™ Super Purity Reagents Specifications

featuring ion-pair & buffer reagents, additives for LC-MS

Ammonium di-Hydrogen Phosphate SpR *HR192*

100g HR192S
500g HR192P

(Ammonium Phosphate monobasic)
NH4H2PO4 MW 115.03 CAS [7722-76-1]
Assay >99%
UV: 200nm >10%; 205nm >50%; 250nm >80%; 310nm >95%; 340-400nm >99%
UV measured as 1M solution in water
Application: HPLC as bu er reagent

Butane-1-sulphonic Acid sodium salt SpR *IP204*

5g IP204X
25g IP204V
100g IP204S
1KG IP204M

(Sodium n-Butyl-1-sulphonate)
CH3(CH2)3SO3.NaMW160.17 CAS [2386-54-1]
Assay >98%
UV: 200nm >96%
UV measured as 0.005M solution in water
Application: HPLC as ion-pair reagent for basic compounds

Cetyltrimethylammonium Bromide
(see Hexadecyltrimethylammonium Bromide)

Decane-1-sulphonic Acid sodium salt SpR *IP210*

25g IP210V
100g IP210S
1KG
IP210M

(Sodium n-Decyl-1-sulphonate)
CH3(CH2)9SO3.NaMW244.33 CAS [13419-61-9]
Assay >98%
UV: 200nm >96%
UV measured as 0.005M solution in water
Application: HPLC asion-pairreagentfor basic compounds

Di uoroacetic Acid SpR *HA744*

50ml HA744T
100ml HA744S
Dgr H:314
P:280c-301+330+331-305+351+338-310

CHF2COOHMW96.03 FP-1°C BP 133°C d 1.53 CAS [381-73-7]
Assay >97.5% Water <0.15% Residue <0.0001%
UV (0.1% aqueous): 215nm >10%; 230nm >50%; 235nm >80%; 245nm >95%; 255-400nm >99%
Fluorescence (0.1% aqueous, as quinine): 254nm <1 ppb; 365nm <1 ppb
Suitability for HPLC passes test
Suitability for LC-MS passes test
Trace ionic impurities (0.1% aqueous):
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Store tightly closed in an upright position.
Application: HPLC as ion-pairreagent,LC-MSasadditive

Dioctyl Sulphosuccinate sodium salt SpR *IP226*

25g IP226V
100g IP226S
1KG
Dgr H:315-318
P:280-305+351+338

(Sodium Dioctylsulphosuccinate)
C20H37O7S.NaMW444.56CAS [577-11-7]
Assay >98%
UV: 254nm >95%
UV measured as 0.005M solution in water
Application: HPLC as ion-pair reagent for basic compounds

Dodecane-1-sulphonic Acid sodium salt SpR *IP212*

25g IP212V
100g IP212S
1KG
IP212M

(Sodium n-Dodecyl-1-sulphonate)
CH3(CH2)11SO3.NaMW272.38 CAS [2386-53-0]
Assay >98%
UV: 200nm >90%
UV measured as 0.0005M solution in water
Application: HPLC asion-pairreagent forbasiccompounds

Dodecyltrimethylammonium Bromide SpR *IP412*

25g IP412V
Dgr H:301-315-319-335-410
P:273-302+352-305+351+338-309+310

CH3(CH2)11N(CH3)3.Br MW 308.35 CAS [1119-94-4]
Assay >98%
UV: 254nm >90%
UV measured as 0.1M solution in water
Application: HPLC as ion-pair reagent for acidic compounds

ROMIL-SpR™ Super Purity Reagents Specifications

featuring ion-pair & buffer reagents, additives for LC-MS

Formic Acid SpR — HA353

100ml HA353S
500ml HA353P
1LT HA353M
Dgr H:226-302-314-331-EUH071
P:210-280c-301+330+331-305+351+338-310

HCOOH MW 46.03 FP 8.3°C BP 100.6°C d 1.22 CAS [64-18-6]
Assay >98% Residue <0.0001%
UV (0.1% aqueous): 225nm <20%; 235nm <50%; 240nm <80%; 250nm <95%; 260-400nm <99%
Fluorescence (0.1% aqueous, as quinine): 254nm <1 ppb; 365nm <1 ppb
Suitability for HPLC passes test
Suitability for LC-MS passes test
Trace ionic impurities (0.1% aqueous):
Ag, Cu, Fe, K, Mg, Mn, Ni, Pb, Zn <10 ppb each
Al, Ca <25 ppb each
Na <50 ppb
Application: HPLC as bu er reagent, LC-MS as additive, Molecular Biology
Concentrated Formic Acid slowly decomposes to carbonmonoxideand waterand the pressure built up can cause an explosion of the sealed glass bottle.
As a safety measure we t larger glass bottles with a closure featuring a venting valve. Bottles with a non-vented closure should have pressure released regularly.

Hepta uorobutyric Acid SpR — IP235

25ml IP235V
Dgr H:314
P:280c-301+330+331-305+351+338-309+310

(Per uorobutyric Acid)
CF3(CF2)2COOH MW 214.04 CAS [375-22-4]
Assay >99%
UV: 230nm >70%; 240nm >90%; 254nm >99%
UV measured as 0.01M solution in water
Application: HPLC as ion-pair reagent for peptide separations, HPLC-MS as volatileion-pair reagent forbasic compounds

Heptane-1-sulphonic Acid sodium salt SpR — IP207

5g IP207X
25g IP207V
100g IP207S
1KG IP207M

(Sodium n-Heptyl-1-sulphonate)
CH3(CH2)6SO3.NaMW202.27 CAS [22767-50-6]
Assay >98%
UV: 200nm >96%
UV measured as 0.005M solution in water
Application: HPLC asion-pairreagentforbasiccompounds

Hexadecyltrimethylammonium Bromide SpR — IP416

25g IP416V
Wng H:302-315-319-335-410
P:273-302+352-305+351+338

(Cetyltrimethylammonium Bromide)
CH3(CH2)15N(CH3)3.BrMW364.64 CAS [57-09-0]
Assay >98%
UV: 254nm >90%
UV measured as 0.1M solution in water
Application: HPLC as ion-pairreagentforacidiccompounds

Hexane-1-sulphonic Acid sodium salt SpR — IP206

5g IP206X
25g IP206V
100g IP206S
1KG IP206M

(Sodium n-Hexyl-1-sulphonate)
CH3(CH2)5SO3.NaMW188.22 CAS [2832-45-3]
Assay >98%
UV: 200nm >96%
UV measured as 0.005M solution in water
Application: HPLC as ion-pair reagent for basic compounds

Orthophosphoric Acid (see Phosphoric Acid 85%)

Octane-1-sulphonic Acid sodium salt SpR — IP208

5g IP208X
25g IP208V
100g IP208S
1KG IP208M

(Sodium n-Octyl-1-sulphonate)
CH3(CH2)7SO3.NaMW216.28 CAS [5324-84-5]
Assay >98%
UV: 200nm >96%
UV measured as 0.005M solution in water
Application: HPLC as ion-pair reagent for basic compounds

Per uorobutyric Acid (see Hepta uorobutyric Acid)

Potassium Phosphate dibasic (see di-Potassium Hydrogen Phosphate)

Potassium Phosphate monobasic (see Potassium di-Hydrogen Phosphate)

ROMIL-SpR™ Super Purity Reagents Specifications

featuring ion-pair & buffer reagents, additives for LC-MS

Pentane-1-sulphonic Acid sodium salt SpR — IP205

5g IP205X
25g IP205V
100g IP205S
1KG IP205M

(Sodium n-Pentyl-1-sulphonate)
CH3(CH2)4SO3.NaMW174.21 CAS [22767-49-3]
Assay >98%
UV: 200nm >96%
UV measured as 0.005M solution in water
Application: HPLC asion-pairreagentfor basic compounds

Perchloric Acid 60% SpR — HA622

100ml HA622S
Dgr H:271-290-314
P:210-221-280c-301+330+331-305+351+338-309+310

HClO4 MW 100.46d1.54CAS[7601-90-3]
Assay ca. 60%
UV: 254nm >98%
UV measured as 1M solution in water
Application: HPLC as bu er reagent

Phosphoric Acid 85% SpR — HA614

100ml HA614S
500ml HA614P
1LT HA614M
Dgr H:290-314
P:280c-301+330+331-305+351+338-308+310

(Orthophosphoric Acid)
H3PO4 MW98.00d 1.70 CAS [7664-38-2]
Assay ca. 85%
UV (0.1% aqueous): 254nm >99%
Suitability for HPLC passes test
Application: HPLC as additive

Potassium Bromide SpR
for infra-red spectroscopy — HR706

100g HR706S

KBr MW 119.00 d 1.30 CAS [7758-02-3]
IR Spectroscopy passes test
Store in desiccator.
Application: IR Spectroscopy as support substance in fabrication of pressed sample discs

Potassium di-Hydrogen Phosphate SpR — HR739

100g HR739S
500g HR7 39P

(Potassium Phosphate monobasic)
KH2PO4MW136.08CAS [7778-77-0]
Assay >99.0%
UV: 200nm >10%; 205nm >50%; 210nm >80%; 305nm >95%; 320-400nm >98%
UV measured as 1M solution in water
Hygroscopic. Replace cap promptly after use.
Application: HPLC as bu erreagent

di-Potassium Hydrogen Phosphate 3H2O SpR — HR471

100g HR471S
500g HR471P

(Potassium Phosphate dibasic)
K2HPO4.3H2OMW 228.22 CAS [16788-57-1]
Assay >99%
UV: 215nm >10%; 220nm >50%; 230nm >80%; 240nm >95%; 320-400nm >99%
UV measured as 1M solution in water
Adsorbs moisture from air. Replace cap promptly after use.
Application: HPLC as bu er reagent

Sodium n-Butyl-1-sulphonate (see Butane-1-sulphonic Acid sodium salt)

Sodium n-Decyl-1-sulphonate (see Decane-1-sulphonic Acid sodium salt)

Sodium Dioctylsulphosuccinate (see Dioctyl Sulphosuccinate sodium salt)

Sodium n-Dodecyl-1-sulphonate (see Dodecane-1-sulphonic Acid sodium salt)

Sodium n-Heptyl-1-sulphonate (see Heptane-1-sulphonic Acid sodium salt)

Sodium n-Hexyl-1-sulphonate (see Hexane-1-sulphonic Acid sodium salt)

Sodium Lauryl Sulphate (see Sodium Dodecyl Sulphate)

Sodium n-Octyl-1-sulphonate (see Octane-1-sulphonic Acid sodium salt)

Sodium n-Pentyl-1-sulphonate (see Pentane-1-sulphonic Acid sodium salt)

Sodium Propyl-1-sulphonate (see Propane-1-sulphonic Acid sodium salt)

ROMIL-SpR™ Super Purity Reagents Specifications

featuring ion-pair & buffer reagents, additives for LC-MS

Sodium Dodecyl Sulphate SpR — IP229

25g IP229V
100g IP229S
1KG
Dgr H:228-302-315-319-335-412
P:210h-273-280e-302+352-305+351+338-313

(Sodium Lauryl Sulphate)
CH3(CH2)11OSO3.NaMW 288.38 CAS [151-21-3]
Assay >99%
UV: 254nm >99%
UV measured as 0.005M solution in water
Application: HPLC as ion-pair reagent for basic compounds

Sodium Perchlorate 1H2O SpR — HR343

100g HR343S
500g HR343P
Dgr H:271-302
P:210-221

NaClO4.H2OMW 140.46 d 2.02 CAS[7791-07-3]
Assay >98%
UV: 210nm >80%; 220nm >90%; 230nm >95%; 240-400nm >98%
UV measured as 1M solution in water
Hygroscopic. Replace cap promptly after use.
Application: HPLC as bu er reagent

Tetramethylene Sulphone (see Sulpholane)

Trichloromethane (see Chloroform)

Tetrachloroethylene Hi-Dry — D4702

100ml D4702S
500ml D4702P
1LT D4702M
2½LT D4702L
Wng H:315-317-319-336-351-411
P:273-281-302+352-305+351+338-308+313

(Perchloroethylene)
CCl2CCl2MW 165.83 BP 121.1°C d 1.62 CAS [127-18-4]
Assay >99.9% Water <0.0020% Residue <0.0001%
Unstabilised

Tetrahydrofuran Hi-Dry — D4718

100ml D4718S
500ml D4718P
1LT D4718M
2½LT D4718L
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2OMW 72.11BP 66°Cd 0.89 CAS [109-99-9]
Assay >99.9% Water <0.0025% Residue <0.0001%
Unstabilised

Tetrahydrofuran Hi-Dry
over molecular sieve — F8717

100ml F8717S
500ml F8717P
1LT F8717M
2½LT F8717L
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2O MW 72.11 BP 66°C d 0.89 CAS [109-99-9] Assay >99.9% Water <0.0025%
Unstabilised
Contains molecular sieve.

Tetrahydrofuran Hi-Dry
stabilised with BHT — D4719

100ml D4719S
500ml D4719P
1LT D4719M
2½LT D4719L
D gr H:2 25-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2O MW 72.11 BP 66°C d 0.89 CAS [109-99-9] Assay >99.9%* Water <0.0025% Residue <0.0001%*
*ex stabiliser
Stabiliser: Butylated hydroxytoluene (BHT) ca. 250 ppm

Toluene Hi-Dry — D4771

100ml D4771S
500ml D4771P
1LT D4771M
2½LT D4771L
Dgr H:225-304-315-336-361d-373
P:210-240-301+310-331-302+352-403+235

C6H5CH3MW 92.14 BP110.6°C d 0.87 CAS [108-88-3]
Assay >99.9% Water <0.0010% Residue <0.0001%

ROMIL-SpR™ Super Purity Reagents Specifications

featuring ion-pair & buffer reagents, additives for LC-MS

Toluene Hi-Dry

over molecular sieve *F8771*

100ml F8771S
500ml F8771P
1LT F8771M
2½LT F8771L
Dgr H:225-304-315-336-361d-373
P:210-240-301+310-331-302+352-403+235

C6H5CH3 MW 92.14 BP 110.6°C d 0.87 CAS [108-88-3] Assay >99.9% Water <0.0010%
Contains molecular sieve.

Triethylamine Hi-Dry

D4763

100ml D4763S
500ml D4763P
1LT D4763M
Dgr H:225-302+312+332-314-335
P:210-280-301+330+331-302+352-304+340-305+351+338-309+310-403+235

(CH3CH2)3N MW101.19BP88.9°Cd 0.73 CAS [121-44-8] Assay >99.8% Water <0.0050% Residue <0.0005%

Triethylamine Hi-Dry

over molecular sieve *F8763*

100ml F8763S
500ml F8763P
1LT F8763M
Dgr H:225-302+312+332-314-335
P:210-280-301+330+331-302+352-304+340-305+351+338-309+310-403+235

(CH3CH2)3N MW 101.19 BP 88.9°C d 0.73 CAS [121-44-8] Assay >99.8% Water <0.0050%
Contains molecular sieve.

2,2,4-Trimethylpentane Hi-Dry

D4901

100ml D4901S
500ml D4901P
1LT D4901M
2½LT D4901L
Dgr H:225-304-315-336-410
P:210-233-240-273-301+310-331-302+352-304+340-403+235

(iso-Octane)
(CH3)3CCH2CH(CH3)2 MW 114.23 BP 99.2°C d 0.69 CAS [540-84-1] Assay >99.75% Water <0.0005% Residue <0.0001%

2,2,4-Trimethylpentane Hi-Dry

over molecular sieve *F8901*

100ml F8901S
500ml F8901P
1LT F8901M
2½LT F8901L
Dgr H:225-304-315-336-410
P:210-233-240-273-301+310-331-302+352-304+340-403+235

(iso-Octane)
(CH3)3CCH2CH(CH3)2 MW 114.23 BP 99.2°C d 0.69 CAS [540-84-1] Assay >99.75% Water <0.0005%
Contains molecular sieve.

ROMIL-BiO™ BioPure Solvents Specifications

for molecular biology

Ammonium Hydroxide solution (see Ammonia solution)

Ammonium Hydroxide solution (see Ammonia solution)

iso-Amyl Alcohol (see 3-Methylbutan-1-ol)

Acetonitrile 10 BiO

H051

1LT H051M
2½LT H051L
4LT H051KZ
BULK H051B
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+233

(Methyl Cyanide)

CH3CNMW 41.05 BP 81.6°C d 0.78 CAS [75-05-8] Assay >99.9% Water <0.001% Residue <0.0001% Application: Protein sequencing, DNA synthesis

Acetonitrile 30 BiO

H053

1LT H053M
2½LT H053L
4LT H053KZ
BULK H053B
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+233

(Methyl Cyanide)

CH3CNMW 41.05 BP 81.6°C d 0.78 CAS [75-05-8]
Assay >99.9% Water <0.003% Residue <0.0001%
Application: Primary washing agent in DNA synthesis

Acetonitrile 50 BiO

H055

1LT H055M
2½LT H055L
4LT H055KZ
BULK H055B
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+233

(Methyl Cyanide)

CH3CNMW41.05 BP 81.6°C d 0.78 CAS [75-05-8]
Assay >99.9% Water <0.005% Residue <0.0001%

Activator reagent ETT 3.25% BiO

5-ethylthiotetrazole/acetonitrile

D820

1LT D820M
2½LT D820L
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+ 233

(5-Ethylthiotetrazole solution)

Water <0.005%
Contains:
5-Ethylthiotetrazole 32.5 g/LT (0.25M)
Solven t: Acetonitrile
Application: Oligonucleotide Synthesis

Ammonia solution BiO

H060

100ml H060S
Dgr H:290-314-335-400
P:273-280c-301+330+331-304+340-305+351+338-309+310

(Ammonium Hydroxide solution)

NH3 MW 17.03 d 0.88 CAS[1336-21-6]
Assay ca. 34% Residue <0.002%
Colour <10 Hazen (APHA)
Application: Molecular Biology

Capping reagent A BiO

acetic anhydride/lutidine/thf

D519

1LT D519M
2½LT D519L
Dgr H:225-315-318-351-335
P:210-240-280-302+352-305+351+338-308+313-403+233

Contains:
Acetic Anhydride
Lutidine
Tetrahydrofuran
Application: Oligonucleotide Synthesis

Capping reagent B BiO

N-methylimidazole/thf 16:84

D576

1LT D576M
2½LT D576L
Dgr H:225-314-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

Water <0.015%
Contains:
N-Methylimidazole 16% v/v
Tetrahydrofuran 84% v/v
Application: Oligonucleotide Synthesis

ROMIL-BiO™ BioPure Solvents Specifications

for molecular biology

Deblock reagent (see Detritylation reagent 3%)

Detritylation reagent 3% BiO

dca/dichloromethane *D1682*

1LT D1682M
2½LT D1682L
Wng H:315-319-351-402
P:273-281-302+352-305+351+338-308+313

(Deblock reagent 3%)
Contains:
Dichloroacetic Acid 30 g/LT
Solvent: Dichloromethane
Application: Oligonucleotide Synthesis

Dichloromethane BiO

stabilised with amylene *H203*

1LT H203M
2½LT H203L
4LT H203KZ
Wng H:351
P:281-308+313

(Methylene Dichloride)
CH2Cl2MW84.93BP 39.6°C d 1.33 CAS [75-09-2]
Assay >99.9%* Water <0.002% Residue <0.0001%
*ex stabiliser
Stabiliser: Amylene ca. 25 ppm
Application: Molecular Biology

Dimethylformamide BiO *H251*

2½LT H251L
4LT H251KZ
Dgr H:360D-226-312+332-319
P:201-210-302+352-305+351+338-308+313

HCON(CH3)2 MW73.09BP153.0°Cd0.95 CAS [68-12-2]
Assay >99.9% Water <0.03%
Amines as CH3NH2 <0.001% (<10 ppm)
Application: Molecular Biology

Dimethylformamide BiO

with molecular sieve *H254*

2½LT H254L
4LT H254KZ
Dgr H:360D-226-312+332-319
P:201-210-302+352-305+351+338-308+313

HCON(CH3)2 MW 73.09 BP 153.0°C d 0.95 CAS [68-12-2] Assay >99.9% Water <0.003%
Application: Molecular Biology

Di-iso-propylethylamine BiO *H240*

100ml H240S
500ml H240P
Dgr H:225-301-314-412
P:210-233-240-273-280-301+330+331-305+351+338-309+310-403+235

(Ethyldi-iso-propylamine)
C8H19NMW 129.25 BP 127°C d 0.76 CAS [7087-68-5]
Assay >99.5% Water <0.05% Residue <0.0001%
Application: Molecular Biology

Ethyldi-iso-propylamine (see Di-iso-propylethylamine)
5-Ethylthiotetrazole solution (see Activator reagent ETT)

Methyl Cyanide (see Acetonitrile)

Methylene Dichloride (see Dichloromethane)

3-Methylbutan-1-ol BiO *H440*

100ml H440S
500ml H440P
Wng H:226-332-335-EUH066
P:210-304+340

(iso-Amyl Alcohol, iso-Pentyl Alcohol)
(CH3)2CHCH2CH2OH MW88.15BP 131.1°C d 0.81 CAS [123-51-3]
Assay >99.8% Water <0.005% Residue <0.0001%
Comprises single isomer
Application: Molecular Biology

N-Methyl-2-pyrrolidone BiO *H567*

2½LT H567L
4LT H567KZ
Dgr H:360D-315-319-335
P:201-302+352-305+351+338-308+313

CH2(CH2)2CONCH3 MW99.13BP202.0°Cd1.03 CAS [872-50-4]
Assay >99.5% Water <0.01%
Application: Molecular Biology

ROMIL-BiO™ BioPure Solvents Specifications

for molecular biology

Oxidiser reagent BiO

iodine 0.02M in water/pyridine/thf *D532*

1LT D532M
2½LT D532L
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

Contains:
Iodine 0.02M
Water
Pyridine
Tetrahydrofuran
Application: Oligonucleotide Synthesis

iso-Pentyl Alcohol (see 3-Methylbutan-1-ol)

Piperidine BiO

H613

100ml H613S
500ml H613P
Dgr H:225-300-311+331-314
P:210-280-301+330+331-302+352-304+340-305+351+338-309+310-403+235

C5H11NMW 85.15 FP -11.0°C BP 106.2°C d 0.86 CAS [110-89-4] Assay >99.5% Water <0.05% Residue <0.0001%
Application: Molecular Biology

Piperidine 20% BiO

dmf solution *D501*

500ml D501P
1LT D501M
2½LT D501L
Dgr H:226-311+331-314-360D
P:201-210-302+352-305+351+338-308+313

Contains:
Piperidine 20% v/v
Dimethylformamide 80% v/v
Application: DNA/RNA Synthesis

Pyridine BiO

H649

500ml H649P
2½LT H649L
Dgr H:225-302+312+332-315-319
P:210-302+352-304+340-305+351+338-403+235

C5H5N MW 79.10BP 115.3°C d 0.98 CAS [110-86-1]
Assay >99.8% Water <0.01% Residue <0.0002%
Application: Molecular Biology

Pyridine BiO

with molecular sieve *H651*

2½LT H651L
Dgr H:225-302+312+332-315-319
P:210-302+352-304+340-305+351+338-403+235

C5H5N MW 79.10 BP 115.3°C CAS [110-86-1] Assay >99.8% Water <0.005%
Application: Molecular Biology

ROMIL-PUROM™ High Purity Process Solvents Specifications

for industrial applications

Acetic Acid glacial (see Acetic Acid)

Acetic Acid PUROM *P5014*

25LT P5014G
200LT P5014D
Dgr H:226-314
P:280c-301+330+331-305+351+338-307+310

(Acetic Acid glacial)
CH3COOH MW 60.05 FP 16.7°C BP 117.9°C d 1.05 CAS [64-19-7] Assay >99.8% Water <0.1% Residue <0.0005%
Application: High purity process solvent

Acetone PUROM *P5031*

25LT P5031G
200LT P5031D
Dgr H:225-319-336-EUH066
P:210-233-305+351+338

(Propanone)
(CH3)2COMW 58.08 BP 56.1°C d 0.79 CAS [67-64-1]
Assay >99.9% Water <0.2% Residue <0.0005%
Application: High purity process solvent

Acetonitrile PUROM *P5048*

25LT P5048G
200LT P5048D
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+233

(Methyl Cyanide)
CH3CNMW 41.05 BP 81.6°C d 0.78 CAS [75-05-8]
Assay >99.9% Water <0.01% Residue <0.0005%
Application: High purity process solvent

Acetonitrile PUROM
for preparative HPLC *P5046*

25LT P5046G
200LT P5046D
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+233

(Methyl Cyanide)
CH3CNMW 41.05 BP 81.6°C d 0.78 CAS [75-05-8]
Assay >99.9% Water <0.03% Residue <0.0005%
UV: 230nm >70%; 280nm >95%
Application: High purity process solvent for preparative HPLC

n-Butanol (see Butan-1-ol)

n-Butyl Alcohol (see Butan-1-ol)

tert-Butyl Methyl Ether (see Methyl tert-Butyl Ether)

Butan-1-ol PUROM *P5083*

25LT P5083G
200LT P5083D
Dgr H:226-302-315-318-335-336
P:210-280f-302+352-304+340-305+351+338-313

(n-Butanol, n-Butyl Alcohol)
CH3(CH2)3OH MW74.12 BP 117.7°C d 0.81 CAS [71-36-3]
Assay >99.8% Water <0.05% Residue <0.0005%
Application: High purity process solvent

Chloroform PUROM
stabilised with amylene *P5140*

200LT P5140D
Dgr H:351-361d-331-302-372-319-315
P:261v-280f-304+340-305+351+338-308+313

(Trichloromethane)
CHCl3 MW119.38 BP 61.2°C d 1.48 CAS [67-66-3]
Assay >99.9%* Water <0.005% Residue <0.0005%
*ex stabiliser
Stabiliser: Amylene ca. 25 ppm
Application: High purity process solvent

Chloroform PUROM
stabilised with ethanol *P5135*

200LT P5135D
Dgr H:351-361d-331-302-372-319-315
P:261v-280f-304+340-305+351+338-308+313

(Trichloromethane)
CHCl3 MW119.38 BP 61.2°C d 1.48 CAS [67-66-3]
Assay >99.9%* Water <0.005% Residue <0.0005%
*ex stabiliser
Stabiliser: Ethanol ca. 1% w/w
Stabiliser should only be removed immediately before use by adsorption onto activated alumina.
Application: High purity process solvent

ROMIL-PUROM™ High Purity Process Solvents Specifications

for industrial applications

Dichloromethane PUROM

stabilised with amylene *P5202*

25LT P5202G
200LT P5202D
Wng H:351
P:281-308+313

(Methylene Dichloride)
CH2Cl2MW84.93BP 39.6°C d 1.33 CAS [75-09-2]
Assay >99.9%* Water <0.01% Residue <0.0005%
*ex stabiliser
Stabiliser: Amylene ca. 25 ppm
Application:Highpurity processsolvent

Diethyl Ether PUROM

stabilised with BHT *P5220*

25LT P5220G
200LT P5220D
Dgr H:224-302-336-EUH019-EUH066
P:210-240-403+235

(C2H5)2O MW 74.12 BP 34.4°C d 0.71 CAS [60-29-7]
Assay >99.9%* Water <0.02% Residue <0.0005%*
*ex stabiliser
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Stabiliser: Butylated hydroxytoluene (BHT) ca. 5 ppm
Application: High purityprocesssolvent

1,2-Dimethoxyethane PUROM *P5261*

25LT P5261G
200LT P5261D
Dgr H:225-360FD-332-EUH019 P:201-210-308+313-403+235

(Ethylene Glycol Dimethyl Ether)
CH3OCH2CH2OCH3 MW90.12 FP -58°C BP 85°C d 0.87 CAS [110-71-4] Assay >99.9% Water <0.01% Residue <0.0005%
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: High purity process solvent

Dimethylformamide PUROM *P5253*

25LT P5253G
200LT P5253D
Dgr H:360D-226-312+332-319
P:201-210-302+352-305+351+338-308+313

HCON(CH3)2 MW 73.09 BP 153.0°C d 0.95CAS[68-12-2]
Assay >99.9% Water <0.03% Residue <0.0005%
Application: High purity process solvent

1,4-Dioxan PUROM *P5297*

25LT P5297G
200LT P5297D
Dgr H:225-350-319-335-EUH019-EUH066
P:210-281-305+351+338-308+313

C4H8O2MW 88.11 FP 11.8°C BP101.3°C d 1.03 CAS [123-91-1]
Assay >99.9% Water <0.005% Residue <0.0005%
Unstabilised
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: High purity process solvent

Ethyl Alcohol **(see Ethanol)**

Ethylene Glycol Dimethyl Ether **(see 1,2-Dimethoxyethane)**

Ethanol absolute PUROM *P5314*

25LT P5314G
200LT P5314D
Dgr H:225
P:210-233-240-403+235

(Ethyl Alcohol)
C2H5OHMW 46.07 BP 78.3°C d 0.79 CAS [64-17-5]
Assay >99.8% Water <0.1% Residue <0.0005%
Application: High purity process solvent

Ethyl Acetate PUROM *P5346*

25LT P5346G
200LT P5346D
Dgr H:225-319-336-EUH066
P:210-233-240-305+351+338-403+235

CH3COOC2H5 MW 88.11 BP 77.1°Cd 0.90 CAS [141-78-6]
Assay >99.9% Water <0.005% Residue <0.0005%
Application: High purity process solvent

n-Heptane 95% PUROM *P5367*

25LT P5367G
200LT P5367D
Dgr H:225-304-315-336-410
P:210-273-301+310-331-302+352-304+340-403+235

CH3(CH2)5CH3 MW 100.21BP94-98°Cd 0.68 CAS [142-82-5]
Water <0.005% Residue <0.0005%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%
Application: High purity process solvent

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ROMIL-PUROM™ High Purity Process Solvents Specifications

for industrial applications

n-Heptane 99% PUROM *P5366*

25LT P5366G
200LT P5366D
Dgr H:225-304-315-336-410
P:210-273-301+310-331-302+352-304+340-403+235

CH3(CH2)5CH3MW 100.21 BP98.4°C d0.68 CAS [142-82-5]
Assay >99% Water <0.005% Residue <0.0005%
Application: High purity process solvent

Hexane fraction PUROM *P5390*

25LT P5390G
200LT P5390D
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

C6H14 BP 65-70°C d 0.66 CAS [73513-42-5]
Water <0.005% Residue <0.0005%
Comprises ca. 50% n-isomer, the remainder being predominantly other isomers of hexane.
Application: High purity process solvent

iso-Hexane 95% PUROM *P5388*

25LT P5388G
200LT P5388D
Dgr H:225-304-315-336-411
P:233-273-301+310-331-302+352-403+235

C6H14 MW86.18BP55-63°Cd0.65CAS[107-83-5]
Water <0.005% Residue <0.0005%
n-Hexane <5%
Application: High purity process solvent

n-Hexane 95% PUROM *P5389*

25LT P5389G
200LT P5389D
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

CH3(CH2)4CH3 MW 86.18BP67-70°Cd 0.66 CAS [110-54-3]
Water <0.005% Residue <0.0005%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%
Application:High purityprocesssolvent

Methyl Alcohol (see Methanol)

Methyl Cyanide (see Acetonitrile)

Methylene Dichloride (see Dichloromethane)

4-Methylpentan-2-one (see Methyl iso-Butyl Ketone)

Methanol PUROM *P5410*

25LT P5410G
200LT P5410D
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

(Methyl Alcohol)
CH3OHMW 32.04 BP 64.5°C d 0.79 CAS [67-56-1]
Assay >99.9% Water <0.02% Residue <0.0005%
Application: High purity process solvent

Methanol PUROM
for preparative HPLC *P5408*

25LT P5408G
200LT P5408D
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

(Methyl Alcohol)
CH3OHMW 32.04 BP 64.5°C d 0.79 CAS [67-56-1]
Assay >99.8% Water <0.05% Residue <0.0005%
UV: 225nm >50%; 255nm >95%
Application: High purity process solvent for preparative HPLC

Methyl tert-Butyl Ether PUROM *P5447*

25LT P5447G
200LT P5447D
Dgr H:225-315
P:210-233-302+352-403+235

(tert-Butyl Methyl Ether)
CH3OC(CH3)3 MW 88.15 BP 55.4°C d 0.74 CAS [1634-04-4] Assay >99.7% Water <0.02% Residue <0.0005%
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: High purity process solvent

2-Methyltetrahydrofuran PUROM *P5536*

25LT P5536G
200LT P5536D
Dgr H:225-319-335-EUH019
P:210-233-240-305+351+338-403+235

CH3C4H7OMW86.13 BP80°Cd0.86 CAS[96-47-9] Assay >99.8% Water <0.01% Residue <0.0005% Unstabilised
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: High purity process solvent

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ROMIL-PUROM™ High Purity Process Solvents Specifications

for industrial applications

2-Methyltetrahydrofuran PUROM

stabilised with BHT *P5537*

25LT P5537G
200LT P5537D
Dgr H:225-319-335-EUH019
P:210-233-240-305+351+338-403+235

CH3C4H7O MW 86.13 BP 80°C d 0.86 CAS [96-47-9]
Assay >99.8%* Water <0.01% Residue <0.0005%*
*ex stabiliser
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Stabiliser: Butylated hydroxytoluene (BHT) ca. 250 ppm
Application: High purity process solvent

iso-Octane (see 2,2,4-Trimethylpentane)

Perchloroethylene (see Tetrachloroethylene)

Petroleum Distillate (see Petroleum Ether)

Petroleum Spirit (see Petroleum Ether)

n-Propanol (see Propan-1-ol)

iso-Propanol (see Propan-2-ol)

Propanone (see Acetone)

n-Propyl Alcohol (see Propan-1-ol)

iso-Propyl Alcohol (see Propan-2-ol)

n-Pentane 95% PUROM

P5571

25LT P5571G
200LT P5571D
Dgr H:225-304-336-411-EUH066
P:273-301+310-331-403+235

CH3(CH2)3CH3 MW 72.15BP35.5-37°Cd 0.63 CAS [109-66-0]
Water <0.005% Residue <0.0005%
Assay (n-isomer) >95%
Assay (all isomers) >99.5%
Application: High purity process solvent

Petroleum Ether 40-60°C PUROM

P5601

25LT P5601G
200LT P5601D
Dgr H:225-304-336-411-EUH066
P:210-233-243-273-280-301+310-303+361+353-304+340-331-403+235

(Petroleum Distillate, Petroleum Spirit)
BP40-60°C d 0.64 CAS [8032-32-4]
Water <0.005% Residue <0.0005%
Application: High purity process solvent

Petroleum Ether 60-80°C PUROM

P5602

25LT P5602G
200LT P5602D
Dgr H:225-304-315-336-411
P:210-243-273-280-301+310-331-403+235

(Petroleum Distillate, Petroleum Spirit)
BP60-80°C d 0.67
Water <0.005% Residue <0.0005%
Application: High purity process solvent

Propan-1-ol PUROM

P5624

25LT P5624G
200LT P5624D
Dgr H:225-318-336
P:210-233-280f-305+351+338-313

(n-Propanol, n-Propyl Alcohol)
CH3CH2CH2OH MW 60.10 BP 97.2°C d 0.80 CAS [71-23-8] Assay >99.9% Water <0.05% Residue <0.0005%
Application: High purity process solvent

Propan-2-ol PUROM

P5625

25LT P5625G
200LT P5625D
Dgr H:225-319-336
P:210-233-305+351+338

(iso-Propanol, iso-Propyl Alcohol)
(CH3)2CHOH MW 60.10 BP 82.2°C d 0.78 CAS [67-63-0]
Assay >99.9% Water <0.02% Residue <0.0005%
Application: High purity process solvent

ROMIL-PUROM™ High Purity Process Solvents Specifications

for industrial applications

Trichloromethane (see Chloroform)

Tetrachloroethylene PUROM — P5702

25LT P5702G
200LT P5702D
Wng H:315-317-319-336-351-411
P:273-281-302+352-305+351+338-308+313

(Perchloroethylene)
CCl2CCl2MW 165.83 BP 121.1°C d 1.62 CAS [127-18-4]
Assay >99.9% Water <0.005% Residue <0.0005%
Unstabilised
Application: High purity process solvent

Tetrahydrofuran PUROM — P5718

25LT P5718G
200LT P5718D
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2OMW 72.11BP 66.0°C d0.89 CAS [109-99-9]
Assay >99.9% Water <0.005% Residue <0.0005%
Unstabilised
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: High purity process solvent

Tetrahydrofuran PUROM
stabilised with BHT — P5719

25LT P5719G
200LT P5719D
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2O MW 72.11 BP 66.0°C d 0.89 CAS [109-99-9] Assay >99.9%* Water <0.005% Residue <0.0005%*
*ex stabiliser
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Stabiliser: Butylated hydroxytoluene (BHT) ca. 250 ppm
Application: High purity process solvent

Toluene PUROM — P5771

25LT P5771G
200LT P5771D
Dgr H:225-304-315-336-361d-373
P:210-240-301+310-331-302+352-403+235

C6H5CH3MW 92.14 BP 110.6°C d 0.87 CAS [108-88-3]
Assay >99.9% Water <0.01% Residue <0.0005%
Application: High purity process solvent

2,2,4-Trimethylpentane PUROM — P5901

25LT P5901G
200LT P5901D
Dgr H:225-304-315-336-410
P:210-233-240-273-301+310-331-302+352-304+340-403+235

(iso-Octane)
(CH3)3CCH2CH(CH3)2 MW 114.23 BP 99.2°C d 0.69 CAS [540-84-1]
Assay>99.75%Water <0.005% Residue<0.0005%
Application:Highpurityprocess solvent

Water PUROM — P5950

25LT P5950G
200LT P5950D

H2OMW 18.02 FP 0.0°CBP 100.0°C CAS [7732-18-5]
Residue <0.0001%
Resistivity (at time of manufacture) >18 MOhm @ 25°C
pH (at time of manufacture) 5.5-8.0 @ 25°C
Application: High purityprocess solvent

Water PUROM
for preparative HPLC — P5948

25LT P5948G
200LT P5948D

H2O MW 18.02 FP 0.0°C BP 100.0°C d 1.00 CAS [7732-18-5]
Residue <0.0005%
Resistivity (at time of manufacture) >18 MOhm @ 25°C
pH (at time of manufacture) 5.5-8.0 @ 25°C
TOC (at time of manufacture) <50 ppb
Application: High purity process solvent for preparative HPLC

Xylene mixed isomers PUROM — P5982

25LT P5982G
200LT P5982D
Wng H:226-312+332-315 P:210-302+352-304+340

C6H4(CH3)2 MW106.17BP138-142°Cd0.86CAS[1330-20-7]
Water <0.01% Residue <0.0005%
Comprises 3 isomers and ethylbenzene
Assay (total C8H10 isomers) >98.5%
Ethylbenzene typically <3%
Toluene typically <0.5%
Methylethylbenzene typically <0.5%
Application: High purity process solvent

ROMIL-PUROM™ High Purity Process Solvents Specifications

for industrial applications

Trichloromethane (see Chloroform)

Tetrachloroethylene PUROM — P5702

25LT P5702G
200LT P5702D
Wng H:315-317-319-336-351-411
P:273-281-302+352-305+351+338-308+313

(Perchloroethylene)
CCl2CCl2MW 165.83 BP 121.1°C d 1.62 CAS [127-18-4]
Assay >99.9% Water <0.005% Residue <0.0005%
Unstabilised
Application: High purity process solvent

Tetrahydrofuran PUROM — P5718

25LT P5718G
200LT P5718D
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2OMW 72.11BP 66.0°C d0.89 CAS [109-99-9]
Assay >99.9% Water <0.005% Residue <0.0005%
Unstabilised
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: High purity process solvent

Tetrahydrofuran PUROM
stabilised with BHT — P5719

25LT P5719G
200LT P5719D
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2O MW 72.11 BP 66.0°C d 0.89 CAS [109-99-9] Assay >99.9%* Water <0.005% Residue <0.0005%*
*ex stabiliser
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Stabiliser: Butylated hydroxytoluene (BHT) ca. 250 ppm
Application: High purity process solvent

Toluene PUROM — P5771

25LT P5771G
200LT P5771D
Dgr H:225-304-315-336-361d-373
P:210-240-301+310-331-302+352-403+235

C6H5CH3MW 92.14 BP 110.6°C d 0.87 CAS [108-88-3]
Assay >99.9% Water <0.01% Residue <0.0005%
Application: High purity process solvent

2,2,4-Trimethylpentane PUROM — P5901

25LT P5901G
200LT P5901D
Dgr H:225-304-315-336-410
P:210-233-240-273-301+310-331-302+352-304+340-403+235

(iso-Octane)
(CH3)3CCH2CH(CH3)2 MW 114.23 BP 99.2°C d 0.69 CAS [540-84-1]
Assay>99.75%Water <0.005% Residue<0.0005%
Application:Highpurityprocess solvent

Water PUROM — P5950

25LT P5950G
200LT P5950D

H2OMW 18.02 FP 0.0°CBP 100.0°C CAS [7732-18-5]
Residue <0.0001%
Resistivity (at time of manufacture) >18 MOhm @ 25°C
pH (at time of manufacture) 5.5-8.0 @ 25°C
Application: High purityprocess solvent

Water PUROM
for preparative HPLC — P5948

25LT P5948G
200LT P5948D

H2O MW 18.02 FP 0.0°C BP 100.0°C d 1.00 CAS [7732-18-5]
Residue <0.0005%
Resistivity (at time of manufacture) >18 MOhm @ 25°C
pH (at time of manufacture) 5.5-8.0 @ 25°C
TOC (at time of manufacture) <50 ppb
Application: High purity process solvent for preparative HPLC

Xylene mixed isomers PUROM — P5982

25LT P5982G
200LT P5982D
Wng H:226-312+332-315 P:210-302+352-304+340

C6H4(CH3)2 MW106.17BP138-142°Cd0.86CAS[1330-20-7]
Water <0.01% Residue <0.0005%
Comprises 3 isomers and ethylbenzene
Assay (total C8H10 isomers) >98.5%
Ethylbenzene typically <3%
Toluene typically <0.5%
Methylethylbenzene typically <0.5%
Application: High purity process solvent

ROMIL-SpA™ Super Purity Acids and Reagents Specifications

Acetic Acid glacial (see Acetic Acid)

Ammonium Hydroxide solution (see Ammonia solution)

Acetic Acid SpA

H015

500ml H015P
Dgr H:226-314
P:280c-301+330+331-305+351+338-307+310

(Acetic Acid glacial)
CH3COOH MW60.05 FP 16.7°C BP 117.9°C d 1.05 CAS [64-19-7]
Assay >99%
Colour <10 Hazen (APHA)
Be, Bi, Ce, Co, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, In, La, Li, Lu, Nd, Pb, Pr, Rb, Re, Sc, Sm, Tb, Th, Tl, Tm, U, Y, Yb, Zr <0.1 ppb each
As, Ba, Cd, Cu, Ge, Mg, Mn, Mo, Ni, Pt, Rh, Ru, Sb, Sn, Sr, Te, Ti, V, W <0.5 ppb each
Ag, Al, Ca, Cr, Fe, Hg, K, Na, Se, Zn <1 ppb each
SO4 <0.5 ppm
PO4 <1 ppm
Cl <1 ppm
Substances reducing dichromate passes test
Substances reducing permanganate passes test
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis (for organic trace analysis see ROMIL Code H014 Acetic Acid SpS), Ion Chromatography, Voltammetry

Elementalimpuritiesspeci edattime ofmanufacture.
Typical values, elemental impurities at time of manufacture (ppb):
Ag <0.1 Cu <0.2 K <0.5 Pt <0.1 Te <0.1 Al <0.5 Dy <0.1 La <0.1 Rb <0.1 Th <0.1 As <0.1 Er <0.1 Li <0.1 Re <0.1 Ti <0.1 Ba <0.1 Eu <0.1 Lu <0.1 Rh <0.1 Tl <0.1 Be <0.1 Fe <0.5 Mg <0.2 Ru <0.1 Tm <0.1 Bi <0.1 Ga <0.1 Mn <0.1 Sb <0.1 U <0.1 Ca <1 Gd <0.1 Mo <0.1 Sc <0.1 V <0.1 Cd <0.1 Ge <0.1 Na <1 Se <0.5 W <0.1 Ce <0.1 Hf <0.1 Nd <0.1 Sm <0.1 Y <0.1 Co <0.1 Hg <0.1 Ni <0.1 Sn <0.1 Yb <0.1 Cr <0.1 Ho <0.1 Pb <0.1 Sr <0.1 Zn <0.5 Cs <0.1 In <0.1 Pr <0.1 Tb <0.1 Zr <0.1

Ammonia solution SpA

H058

500ml H058P
Dgr H:314-335
P:280c-301+330+331-304+340-305+351+338-309+310

(Ammonium Hydroxide solution)
NH3 MW 17.03 d 0.92CAS[1336-21-6]
Assay 20-22%
Colour <10 Hazen (APHA)
Ba, Be, Bi, Ce, Cs, Dy, Er, Eu, Ga, Gd, Ge, Ho, In, La, Li, Lu, Nb, Nd, Pb, Pr, Rb, Sc, Sm, Sr, Tb, Te, Th, Tl, Tm, U, W, Y, Yb, Zr <0.1 ppb each
Hg <0.2 ppb
Ag, Au, Cd, Co, Cr, Cu, Mn, Mo, Ni, Rh, Sb, Sn, Ti, V, Zn <0.5 ppb each
Al, As, Ca, Fe, K, Mg,Na,Se <1 ppb each
PO4 <0.01 ppm
Cl <0.5 ppm
SO4 <1 ppm
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry

Elementalimpuritiesspeci edattime ofmanufacture.
Typical values, elemental impurities at time of manufacture (ppb):
Ag <0.1 Cu <0.5 La <0.1 Pt <1 Th <0.1 Al <0.5 Dy <0.1 Li <0.1 Rb <0.1 Ti <0.1 As <0.1 Er <0.1 Lu <0.1 Re <1 Tl <0.1 Au <0.1 Eu <0.1 Mg <0.2 Rh <0.1 Tm <0.1 Ba <0.1 Fe <0.5 Mn <0.2 Ru <1 U <0.1 Be <0.1 Ga <0.1 Mo <0.1 Sb <0.1 V <0.1 Bi <0.1 Gd <0.1 Na <0.5 Sc <0.1 W <0.1 Ca <0.5 Ge <0.1 Nb <0.1 Se <0.1 Y <0.1 Cd <0.1 Hf <1 Nd <0.1 Sm <0.1 Yb <0.1 Ce <0.1 Hg <0.2 Ni <0.2 Sn <0.1 Zn <0.5 Co <0.1 Ho <0.1 Pb <0.1 Sr <0.1 Zr <0.1 Cr <0.1 In <0.1 Pd <1 Tb <0.1
Cs <0.1 K <0.2 Pr <0.1 Te <0.1

Dimethylformamide SpA

low metals

H255

1LT H255M
2½LT H255L
Dgr H:360D-226-312+332-319
P:201-210-302+352-305+351+338-308+313

HCON(CH3)2 MW 73.09 BP 153.0°C d 0.95 CAS [68-12-2] Assay >99.9% Water <0.05% Residue <0.0001%
Group 1 & 2 elements typically <0.1-<10 ppb
Group 3 to 12 (transition) elements typically <0.1-<5 ppb
Group 13, 14, 15 elements typically <0.1-<5 ppb
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis (for organic analysis and chromatography see ROMIL Code H253 Dimethylformamide SpS)

ROMIL-SpA™ Super Purity Acids and Reagents Specifications

Hydrochloric Acid SpA

H396

500ml H396P
1LT H396M
2½LT H396L
Dgr H:290-314-335
P:280c-301+330+331-305+351+338-309+310

HClMW 36.46 d 1.18CAS[7647-01-0]□ Assay 34-37%
Colour <10 Hazen (APHA)
Ba, Be, Bi, Cd, Ce, Co, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Pb, Pr, Rb, Re, Rh, Ru, Sc, Sm, Sr, Tb, Te, Th, Tl, Tm, U, W, Y, Yb, Zr <0.1 ppb each
As, Au, Cr, Cu, Hg, Mg, Ni, Sb, Sn, Ti, V <0.5 ppb each
Ag, Al, B, Ca, Fe, K, Na, Se, Zn <1 ppb each
Total P <0.01 ppm
Total S <0.3 ppm
Free Cl2 <0.5 ppm
Br <10 ppm
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry

Elementalimpuritiesspeci edattime ofmanufacture.
Typical values, elemental impurities at time of manufacture (ppb):
Ag <0.1 Cs <0.1 La <0.1 Pt <0.5 Te <0.1 Al <0.5 Cu <0.1 Li <0.1 Rb <0.1 Th <0.1 As <0.1 Dy <0.1 Lu <0.1 Re <0.1 Ti <0.1 Au <0.1 Er <0.1 Mg <0.5 Rh <0.1 Tl <0.1 B <0.5 Eu <0.1 Mn <0.1 Ru <0.1 Tm <0.1 Ba <0.1 Fe <0.5 Mo <0.1 Sb <0.1 U <0.1 Be <0.1 Ga <0.1 Na <0.5 Sc <0.1 V <0.1 Bi <0.1 Gd <0.1 Nb <0.1 Se <0.1 W <0.1 Ca <0.5 Hf <0.1 Nd <0.1 Sm <0.1 Y <0.1 Cd <0.1 Hg <0.2 Ni <0.1 Sn <0.1 Yb <0.1 Ce <0.1 Ho <0.1 Pb <0.1 Sr <0.1 Zn <0.5 Co <0.1 In <0.1 Pd <0.5 Ta <0.5 Zr <0.1 Cr <0.1 K <0.1 Pr <0.1 Tb <0.1

Hydro uoric Acid SpA

H405

500ml H405P
Dgr H:300+310+330-314
P:280-301+330+331-302+352-304+340-305+351+338-310+ROP010

HFMW 20.01 d 1.16 CAS[7664-39-3]□ Assay 47-51%
Colour <10 Hazen (APHA)
Ba, Be, Bi, Cd, Ce, Co, Cs, Dy, Er, Eu, Ga, Gd, Ge, Hf, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Pb, Pr, Rb, Re, Rh, Ru, Sc, Sm, Sr, Tb, Te, Th, Tl, Tm, U, V, Y, Yb, Zr <0.1 ppb each
Au, Pd, Pt, Sb <0.2 ppb each
Ag, As, Cu, Ni, Sn, W <0.5 ppb each
Al, B, Ca, Cr, Fe, Hg, K, Mg, Na, Se, Ti, Zn <1 ppb each
Total P <0.05 ppm
Total S <0.1 ppm
Cl <4 ppm
SiF6 <20 ppm
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry

Elementalimpurities speci edattimeofmanufacture.
For treatment of HF burns, calcium gluconate gel (ROMIL Code PCG9V) is recommended. In order to provide emergency rst aid, it should be kept wherever HF is handled or stored.
Typical values, elemental impurities at time of manufacture (ppb):
Ag <0.1 Cs <0.1 K <0.2 Pr <0.1 Tb <0.1
Al <0.5 Cu <0.1 La <0.1 Pt <0.2 Te <0.1
As <0.1 Dy <0.1 Li <0.1 Rb <0.1 Th <0.1
Au <0.1 Er <0.1 Lu <0.1 Re <0.1 Ti <0.5
B <0.5 Eu <0.1 Mg <0.2 Rh <0.1 Tl <0.1
Ba <0.1 Fe <0.5 Mn <0.1 Ru <0.1 Tm <0.1
Be <0.1 Ga <0.1 Mo <0.1 Sb <0.1 U <0.1
Bi <0.1 Gd <0.1 Na <0.5 Sc <0.1 V <0.1
Ca <0.5 Ge <0.1 Nb <0.1 Se <0.1 W <0.5
Cd <0.1 Hf <0.1 Nd <0.1 Sm <0.1 Y <0.1
Ce <0.1 Hg <0.05 Ni <0.1 Sn <0.1 Yb <0.1
Co <0.1 Ho <0.1 Pb <0.1 Sr <0.1 Zn <0.1
Cr <0.1 In <0.1 Pd <0.2 Ta <0.5 Zr <0.1

Hydrogen Peroxide SpA

H416

500ml H416P
Dgr H:302-318
P:280e-305+351+338-313

H2O2 MW 34.01d 1.10CAS[7722-84-1]
Assay ca. 30%
Colour <10 Hazen (APHA)
B, Be, Bi, Ce, Co, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, Ir, La, Lu, Mn, Nd, Pd, Pt, Rb, Re, Rh, Ru, Sc, Sm, Sr, Tb, Te, Th, Tl, Tm, U, Y, Yb <0.5 ppb each
Ba, Cu, Cr, Sb <1 ppb each
Ag, As, Cd, Ge, In, Li, Mg, Mo, Ni, Pb, Se, Sn, V, Zr <5 ppb each
Al, Ti, Zn <10 ppb each
Au, Ca, Fe, Hg, K, Na, Nb, Ta, W <50 ppb each
Cl, PO4 <0.5 ppm each
SO4, NO3 <1 ppm each
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry
Elemental impurities speci edat time of manufacture.
As a safety measure we t bottles with a closure featuring a venting valve.
Typical values, elemental impurities at time of manufacture (ppb):
Ag 2 Cs <0.1 Ir <0.1 Pd <0.1 Tb <0.1 Al <0.1 Cu <0.1 K 15 Pt <0.1 Te <0.1
As <0.1 Dy <0.1 La <0.1 Rb <0.1 Th <0.1 Au <0.1 Er <0.1 Li <0.1 Re <0.1 Ti 4
B <0.1 Eu <0.1 Lu <0.1 Rh <0.1 Tl <0.1 Ba <0.1 Fe <6 Mg <0.1 Ru <0.1 Tm <0.1 Be <0.1 Ga <0.1 Mn <0.1 Sb <0.1 U <0.1 Bi <0.1 Gd <0.1 Mo <0.1 Sc <0.1 V <0.1 Ca <0.1 Ge <0.1 Na 16 Se 2 W 1
Cd <0.1 Hf <0.1 Nb 0.2 Sm <0.1 Y <0.1 Ce <0.1 Hg 3 Nd <0.1 Sn <0.1 Yb <0.1 Co <0.1 Ho <0.1 Ni <0.1 Sr <0.1 Zn 2
Cr <0.1 In <0.1 Pb <0.1 Ta 1 Zr 2

ROMIL-SpA™ Super Purity Acids and Reagents Specifications

Methyl Alcohol (see Methanol)

4-Methylpentan-2-one (see Methyl iso-Butyl Ketone)

Methanol SpA

low metals *H413*

500ml H413P
1LT H413M
2½LT H413L
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

(Methyl Alcohol)

CH3OH MW 32.04 BP 64.5°C d 0.79 CAS [67-56-1]
Assay >99.9% Water <0.05% Residue <0.0001%
Group 1 & 2 elements typically <0.5 ppb
Group 3 to 12 (transition) elements typically <0.5 ppb
Group 13, 14, 15 elements typically <0.5-<50 ppb
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis (for organic analysis and chromatography see ROMIL Code H410 Methanol SpS)

Typical values, elemental impurities at time of manufacture (ppb):

Ag	<0.5	Cd	<0.5	Mg	<0.5	Sn	<0.5
Al	<0.5	Co	<0.5	Mn	<0.5	Sr	<0.5
As	<0.5	Cr	<0.5	Mo	<0.5	Th	<0.5
B	29	Cu	<0.5	Na	<0.5	Ti	<0.5
Ba	<0.5	Fe	<0.5	Ni	<0.5	U	<0.5
Be	<0.5	Hg	<0.5	Pb	<0.5	V	<0.5
Bi	<0.5	K	<0.5	Sb	1	Zn	<0.5
Ca	<0.5	Li	<0.5	Se	<0.5	Zr	<0.5

Methyl iso-Butyl Ketone SpA *H439*

500ml H439P
2½LT H439L
Dgr H:225-332-319-336-351-EUH066
P:210-305+351+338-304+340

(4-Methylpentan-2-one)

(CH3)2CHCH2COCH3 MW 100.16 BP 117.4°C d 0.80 CAS [108-10-1]
Assay >99.8% Water <0.01% Residue <0.0001%
Group 1 & 2 elements typically <0.1-<250 ppb
Group 3 to 12 (transition) elements typically <0.1-<100 ppb
Group 13, 14, 15 elements typically <0.5-<100 ppb
Peroxides (at time of manufacture) <0.0001% (<1 ppm)
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis (for organic analysis and chromatography see ROMIL Code H446 Methyl iso-Butyl Ketone SpS)

Nitric Acid SpA

500ml H566P
1LT H566M
2½LT H566L
Dgr H:272-290-331-314-EUH071
P:260c-280c-301+330+331-305+351+338-309+310

HNO3 MW 63.01 d 1.42CAS [7697-37-2] Assay 67-69%
Colour <10 Hazen (APHA)
Ag, Au, Ba, Be, Bi, Ce, Cs, Dy, Er, Eu, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo,
Nb, Nd, Pb, Pr, Rb, Re, Sc, Sm, Sr, Tb, Te, Th, Tl, Tm, U, W, Y, Yb, Zr <0.1 ppb each
As, Cd, Co, Cu, Ni, Pd, Pt, Rh, Ru, Sb, Sn, Ti, V, Zn <0.5 ppb each
Al, B, Ca, Cr, Fe, K, Mg, Na, Se <1 ppb each
Total P <0.01 ppm
Cl <0.2 ppm
Total S <0.3 ppm
Store in dark.
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry

Elementalimpurities speci ed at timeof manufacture.
Concentrated Nitric Acid can decompose to nitrogen oxides (NOx) through action of heat or light resulting in a yellow colouration. However, this does not a ect the performance of the acid with respect to trace metals or oxidising power.
Storage in a cool, dark place is recommended.
Typical values, elemental impurities at time of manufacture (ppb):
Ag <0.1 Cs <0.1 K <0.2 Pr <0.1 Tb <0.1
Al <0.5 Cu <0.1 La <0.1 Pt <0.1 Te <0.1
As <0.1 Dy <0.1 Li <0.1 Rb <0.1 Th <0.1
Au <0.1 Er <0.1 Lu <0.1 Re <0.1 Ti <0.1
B <0.5 Eu <0.1 Mg <0.2 Rh <0.1 Tl <0.1
Ba <0.1 Fe <0.5 Mn <0.1 Ru <0.1 Tm <0.1
Be <0.1 Ga <0.1 Mo <0.1 Sb <0.1 U <0.1
Bi <0.1 Gd <0.1 Na <0.2 Sc <0.1 V <0.1
Ca <0.5 Ge <0.1 Nb <0.1 Se <0.1 W <0.1
Cd <0.1 Hf <0.1 Nd <0.1 Sm <0.1 Y <0.1
Ce <0.1 Hg <0.02 Ni <0.1 Sn <0.1 Yb <0.1
Co <0.1 Ho <0.1 Pb <0.1 Sr <0.1 Zn <0.2
Cr <0.5 In <0.1 Pd <0.1 Ta <0.1 Zr <0.1

ROMIL-SpA™ Super Purity Acids and Reagents Specifications

Perchloric Acid SpA

less than 50% w/w *H675*

500ml H675P
2½LT H675L
Dgr H:272-314
P:210-220o-280c-301+330+331-305+351+338-309+310

HClO4 MW 100.46 d 1.40 CAS [7601-90-3]□ Assay 46-49%
Colour <10 Hazen (APHA)
As, Au, Be, Bi, Ce, Co, Cs, Cu, Dy, Er, Eu, Ga, Gd, Ho, In, La, Li, Lu, Mo, Nd, Pd, Pr,
Pt, Rb, Rh, Sb, Sc, Sm, Sr, Tb, Te, Tl, Tm, U, V, Y, Yb, Zr <0.5 ppb each
Ag, Al, Ba, Ca, Cd, Fe, K, Mg, Mn, Na, Ni, Pb, Sn, Th, Ti, Zn <1 ppb each
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry

Elementalimpurities speci edattime ofmanufacture.
Lesshazardousacid concentration to facilitate international shipping.

Perchloric Acid SpA

H584

500ml H584P
2½LT H584L
Dgr H:271-290-314
P:210-221-280c-301+330+331-305+351+338-309+310

HClO4 MW 100.46 d1.66CAS[7601-90-3]□ Assay 65-71%
Colour <10 Hazen (APHA)
As, Au, Be, Bi, Ce, Co, Cs, Cu, Dy, Er, Eu, Ga, Gd, Ho, In, La, Li, Lu, Mo, Nd, Pd, Pr,
Pt, Rb, Rh, Sb, Sc, Sm, Sr, Tb, Te, Tl, Tm, U, V, Y, Yb, Zr <0.5 ppb each
Ag, Al, Ba, Ca, Cd, Fe, K, Mg, Mn, Na, Ni, Pb, Sn, Th, Ti, Zn <1 ppb each
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry

Elementalimpuritiesspeci edattime ofmanufacture.
Typical values, elemental impurities at time of manufacture (ppb):
Ag <0.1 Cu <0.1 Li <0.1 Pt <0.5 Ti <0.5 Al <0.5 Dy <0.1 Lu <0.1 Rb <0.1 Tl <0.1 As <0.1 Er <0.1 Mg <0.1 Rh <0.1 Tm <0.1 Au <0.1 Eu <0.1 Mn <0.1 Sb <0.1 U <0.1 Ba <0.1 Fe <0.5 Mo <0.1 Sc <0.1 V <0.1 Be <0.1 Ga <0.1 Na <0.1 Sm <0.1 W <0.5 Bi <0.1 Gd <0.1 Nb <0.5 Sn <0.5 Y <0.1 Ca <0.5 Hf <0.5 Nd <0.1 Sr <0.1 Yb <0.1 Cd <0.1 Ho <0.1 Ni <0.5 Ta <0.5 Zn <0.5 Ce <0.1 In <0.1 Pb <0.1 Tb <0.1 Zr <0.1 Co <0.1 K <0.1 Pd <0.5 Te <0.1 Cs <0.1 La <0.1 Pr <0.1 Th <0.1

Sulphuric Acid SpA

H691

500ml H691P
1LT H691M
2½LT H691L
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07 d1.84CAS[7664-93-9]□ Assay 93-98%
Colour <10 Hazen (APHA)
Ba, Be, Bi, Dy, Er, Eu, Ga, Gd, Hf, Ho, La, Lu, Nd, Pb, Pr, Sc, Sm, Tb, Te, Th, Tm, U
<0.1 ppb each
Au, Cd, Ce, Co, Cr, Cs, Cu, In, Li, Mn, Mo, Nb, Ni, Pt, Rb, Rh, Sr, Tl, V, W, Y, Yb, Zr
<0.5 ppb each
Ag, Al, As, Ca, Fe, Ge, Hg, K, Mg, Na, Sb, Sn, Ti, Zn <1 ppb each
Se <10 ppb
Total P <0.05 ppm
NO3 <0.2 ppm
Cl <0.7 ppm
Substances reducing permanganate <20 ppm
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry
Elementalimpuritiesspeci edattime ofmanufacture.
Typical values, elemental impurities at time of manufacture (ppb):
Ag <0.1 Cu <0.1 La <0.1 Pt <0.5 Ti <0.5 Al <0.5 Dy <0.1 Li <0.1 Rb <0.5 Tl <0.5 As <1 Er <0.1 Lu <0.1 Rh <0.5 Tm <0.1 Au <0.1 Eu <0.1 Mg <0.5 Sb <1 U <0.1 Ba <0.1 Fe <0.5 Mn <0.5 Sc <0.1 V <0.1 Be <0.1 Ga <0.1 Mo <0.1 Se <5 W <0.5 Bi <0.1 Gd <0.1 Na <0.5 Sm <0.1 Y <0.5 Ca <0.5 Ge <0.1 Nb <0.5 Sn <0.1 Yb <0.5 Cd <0.1 Hf <0.1 Nd <0.1 Sr <0.1 Zn <0.2 Ce <0.5 Hg <1 Ni <0.1 Ta <0.5 Zr <0.1 Co <0.1 Ho <0.1 Pb <0.1 Tb <0.1 Cr <0.1 In <0.5 Pd <0.5 Te <0.1 Cs <0.5 K <0.5 Pr <0.1 Th <0.1

Water SpA

H951

2½LT H951L

H2OMW 18.02FP 0.0°C BP 100.0°C CAS [7732-18-5]□ Residue <0.0001%
Resistivity (at time of manufacture) >18 MOhm @ 25°C
Elemental impurities at time of manufacture:
Ag, Ba, Be, Bi, Cd, Hg, Mo, Pb, Sb <0.5 ppb each
Al, As, Co, Cr, Cu, Li, Mn, Ni, Sn, Sr, Th, Ti, U, V, Zr <1 ppb each
Fe, Mg, Zn <2 ppb each
B <10 ppb
Ca, K, Na <20 ppb each
Equivalent to ASTM D1193 Type II
Application: Environment Analysis (eg, using AAS, ICP-OES, ICP-MS), Trace Metal Analysis (for HPLC and organic trace analysis see ROMIL Code H950 Water SpS), Ion Chromatography, Voltammetry

Typical values, elemental impurities at time of manufacture (ppb):
Ag <0.3 Ca <1 K <1 Pb <0.02
Al <0.2 Cd <0.01 Li <0.03 Sb <0.01
As <0.08 Co <0.02 Mg <0.2 Sn <0.03
B <6.5 Cr <0.03 Mn <0.02 Sr <0.02
Ba <0.06 Cu <0.07 Mo <0.05 Th <0.02
Be <0.02 Fe <0.1 Na <1 Ti <0.05
Bi <0.02 Hg <0.01 Ni <0.05 U <0.02

V <0.05
Zn <0.2
Zr <0.01

ROMIL-UpA™ Ultra Purity Acids and Reagents Specifications

Acetic Acid glacial (see Acetic Acid)

Ammonium Hydroxide solution (see Ammonia solution)

Acetic Acid UpA

SS62

500ml SS62P
Dgr H:226-314
P:280c-301+330+331-305+351+338-307+310

(Acetic Acid glacial)

CH3COOHMW 60.05 FP 16.7°C BP 117.9°C d 1.05 CAS [64-19-7] Assay >99%

Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certi cate of Analysis
Application: Ultra trace inorganic analysis
Typical values,elemental impurities at timeof manufacture(ppt):

Ag <50 Cu <5 La <0.1 Rb <1	*Th <0.1*
Al <20 Dy <0.1 Li <1 Re <0.1	*Ti <10*
As <20 Er <0.1 Lu <0.1 Rh <20	*Tl <0.1*
Ba <1 Eu <0.1 Mg <10 Ru <20	*Tm <0.1*
Be <5 Fe <20 Mn <1 Sb <10	*U <0.1*
Bi <1 Ga <1 Mo <10 Sc <1	*V<1*
Ca <50 Gd <0.1 Na <50 Se <50	*W<10*
Cd <1 Ge <1 Nd <0.1 Sm <0.1	*Y<1*
Ce <0.1 Hf <10 Ni <10 Sn <10	*Yb <0.1*
Co <1 Ho <0.1 Pb <2 Sr <1	*Zn <20*
Cr <10 In <1 Pr <0.1 Tb <0.1	*Zr <10*
Cs <0.1 K <30 Pt <50 Te <1	

Ammonia solution UpA

SS72

500ml SS72P
Dgr H:314-335
P:280c-301+330+331-304+340-305+351+338-309+310

(Ammonium Hydroxide solution)

NH3 MW17.03 d 0.92CAS [1336-21-6]
Assay 20-22%

Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certi cate of Analysis
Application: Ultra trace inorganic analysis
Typical values,elemental impurities at timeof manufacture(ppt):

Ag <1 Cu <5 La <0.1 Pt <1	*Th <0.1*
Al <10 Dy <0.1 Li <1 Rb <1	*Ti<5*
As <10 Er <0.1 Lu <0.1 Re <1	*Tl<1*
Au <5 Eu <0.1 Mg <5 Rh <1	*Tm <0.1*
Ba <5 Fe <10 Mn <5 Ru <10	*U <0.1*
Be <5 Ga <1 Mo <1 Sb <10	*V<2*
Bi <0.1 Gd <0.1 Na <10 Sc <2	*W<5*
Ca <10 Ge <1 Nb <1 Se <50	*Y<1*
Cd <1 Hf <0.1 Nd <0.1 Sm <1	*Yb <0.1*
Ce <0.1 Hg <200 Ni <5 Sn <5	*Zn<5*
Co <1 Ho <0.1 Pb <2 Sr <1	*Zr<1*
Cr <5 In <1 Pd <20 Tb <0.1	
Cs <0.1 K <10 Pr <0.1 Te <1	

Hydrobromic Acid UpA

SS82

500ml SS82P
Dgr H:314-335
P:280c-301+330+331-304+340-305+351+338-309+310

HBrMW80.91d 1.48CAS[10035-10-6]
Assay 44-49%

Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certi cate of Analysis
Application: Ultra trace inorganic analysis
Typical values,elemental impurities at timeof manufacture(ppt):

Ag <2 Cu <5 Lu <0.01 Re <5	*Tl <0.1*
Al <50 Dy <0.01 Mg <5 Rh <1	*Tm <0.01*
Au <1 Er <0.01 Mn <2 Ru <10	*U <0.01*
B <1000 Eu <0.01 Mo <10 Sb <50	*V<1*
Ba <1 Fe <50 Na <30 Sc <1	*W<10*
Be <5 Ga <10 Nb <1 Sm <0.01	*Y<1*
Bi <0.1 Gd <0.01 Nd <0.05 Sn <20	*Yb <0.01*
Ca <50 Hf <0.05 Ni <10 Sr <1	*Zn<5*
Cd <1 Ho <0.01 Pb <1 Ta <20	*Zr<1*
Ce <0.05 In <1 Pd <10 Tb <0.01	
Co <1 K <20 Pr <0.05 Te <10	
Cr <10 La <0.05 Pt <1 Th <0.05	
Cs <0.05 Li <1 Rb <1 Ti <10	

Hydrochloric Acid UpA

SS42

500ml SS42P
Dgr H:290-314-335
P:280c-301+330+331-305+351+338-309+310

HClMW36.46d 1.18CAS[7647-01-0]
Assay 32-35%

Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certi cate of Analysis
Application: Ultra trace inorganic analysis
Typical values,elemental impurities at timeof manufacture(ppt):

Ag <5 Cs <0.05 La <0.05 Pt <1	*Te<1*
Al <10 Cu <3 Li <1 Rb <1	*Th <0.05*
As <20 Dy <0.01 Lu <0.01 Re <0.1	*Ti <10*
Au <10 Er <0.01 Mg <5 Rh <1	*Tl <0.1*
B <10 Eu <0.01 Mn <2 Ru <10	*Tm <0.01*
Ba <1 Fe <10 Mo <5 Sb <20	*U <0.01*
Be <5 Ga <1 Na <5 Sc <1	*V<1 W<5*
Bi <0.05 Gd <0.01 Nb <1 Se <50	*Y <0.1 Yb*
Ca <10 Hf <0.05 Nd <0.05 Sm <0.01	*<0.01*
Cd <0.1 Hg <20 Ni <10 Sn <10	*Zn<5*
Ce <0.05 Ho <0.01 Pb <1 Sr <1	*Zr<1*
Co <3 In <0.1 Pd <10 Ta <20	
Cr <10 K <10 Pr <0.05 Tb <0.01	

ROMIL-UpA™ Ultra Purity Acids and Reagents Specifications

Hydro uoric Acid UpA — SS52

500ml SS52P
Dgr H:300+310+330-314
P:280-301+330+331-302+352-304+340-305+351+338-310+ROP 010

HFMW20.01d 1.16CAS[7664-39-3]
Assay 47-51%
Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certi cate of Analysis
Application: Ultra trace inorganic analysis
For treatment of HFburns, calcium gluconate gel (ROMIL CodePCG9V) is recommended. In order to provide emergency rst aid, it should be kept wherever HF is handled or stored.
Typical values, elemental impurities at time of manufacture (ppt):
Ag <1 Cs <0.5 K <10 Pr <0.1 Tb <0.1
Al <10 Cu <10 La <0.1 Pt <10 Te <1
As <10 Dy <0.1 Li <1 Rb <1 Th <0.1
Au <10 Er <0.1 Lu <0.1 Re <0.1 Ti <10
B <10 Eu <0.1 Mg <5 Rh <1 Tl <0.1
Ba <5 Fe <10 Mn <1 Ru <1 Tm <0.1
Be <5 Ga <1 Mo <5 Sb <10 U <0.1
Bi <0.1 Gd <0.1 Na <10 Sc <1 V <1
Ca <10 Ge <1 Nb <5 Se <50 W <10
Cd <0.1 Hf <1 Nd <0.1 Sm <0.1 Y <0.5
Ce <0.1 Hg <20 Ni <10 Sn <10 Yb <0.1
Co <1 Ho <0.1 Pb <1 Sr <1 Zn <5
Cr <10 In <0.1 Pd <10 Ta <20 Zr <10
Typical values, anionic impurities at time of manufacture (ppb):
TotalS <50

Hydrogen Peroxide UpA — SS92

500ml SS92P
Dgr H:302-318
P:280e-305+351+338-313

H2O2 MW34.01 d 1.10CAS [7722-84-1]
Assay 30-32%
Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certi cate of Analysis
Application: Ultra trace inorganic analysis
Typical values, elemental impurities at time of manufacture (ppt):
Ag <10 Cs <1 K <10 Pr <0.5
Al <10 Cu <5 La <0.5 Rb <5
As <10 Dy <0.5 Li <1 Re <5
Au <10 Er <0.5 Lu <0.5 Rh <5
B <100 Eu <0.5 Mg <10 Ru <10
Ba <5 Fe <20 Mn <5 Sb <1
Be <5 Ga <5 Mo <5 Sc <10
Bi <10 Gd <0.5 Na <10 Se <50
Ca <50 Ge <10 Nb <1 Sm <0.5
Cd <1 Hf <1 Nd <0.5 Sn <10
Ce <1 Hg <20 Ni <10 Sr <1
Co <5 Ho <0.5 Pb <1 Ta <10
Cr <5 In <0.5 Pd <10 Tb <0.5
Te<1
Th <0.5
Ti <10
Tl<1
Tm <0.5
U <0.5
V<5
W<10
Y<1
Yb <0.5
Zn <10
Zr<5

Nitric Acid UpA — SS12

500ml SS12P
Dgr H:272-290-331-314-EUH071
P:260c-280c-301+330+331-305+351+338-309+310

HNO3 MW63.01 d1.42CAS [7697-37-2]
Assay 67-69%
Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certi cate of Analysis
Store in dark.
Application: Ultra trace inorganic analysis
Concentrated Nitric Acid can decompose tonitrogen oxides (NOx) through action of heat or light resulting in a yellow colouration. However, this does not a ect the performance of the acid with respect to trace metals or oxidising power.
Storage in a cool, dark place is recommended.
Typical values, elemental impurities at time of manufacture (ppt):
Ag <2 Cs <0.05 K <5 Pr <0.05 Tb <0.01
Al <10 Cu <3 La <0.05 Pt <1 Te <1
As <10 Dy <0.01 Li <1 Rb <1 Th <0.05
Au <10 Er <0.01 Lu <0.01 Re <1 Ti <10
B <10 Eu <0.01 Mg <5 Rh <1 Tl <0.1
Ba <1 Fe <10 Mn <2 Ru <10 Tm <0.01
Be <5 Ga <1 Mo <1 Sb <10 U <0.01
Bi <0.1 Gd <0.01 Na <5 Sc <1 V <1
Ca <10 Ge <1 Nb <1 Se <20 W <5
Cd <1 Hf <0.05 Nd <0.05 Sm <0.01 Y <1
Ce <0.05 Hg <20 Ni <10 Sn <10 Yb <0.01
Co <1 Ho <0.01 Pb <1 Sr <1 Zn <5
Cr <10 In <1 Pd <10 Ta <10 Zr <1

Perchloric Acid UpA — SS22

500ml SS22P
Dgr H:271-290-314
P:210-221-280c-301+330+331-305+351+338-309+310

HClO4 MW100.46 d1.66CAS[7601-90-3]
Assay 65-71%
Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certi cate of Analysis
Application: Ultra trace inorganic analysis

ROMIL-UpA™ Ultra Purity Acids and Reagents Specifications

Sulphuric Acid UpA — SS32

500ml SS32P
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW98.07 d1.84CAS [7664-93-9]
Assay 93-98%
Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certi cate of Analysis
Application: Ultra trace inorganic analysis
Typical values,elemental impurities at timeof manufacture(ppt):

Ag <5 Dy <0.1 Li <10 Rb <1
Al <30 Er <0.1 Lu <0.1 Rh <1
As <500 Eu <0.1 Mg <10 Sb <10
Ba <10 Fe <30 Mn <1 Sc <5
Be <5 Ga <1 Mo <10 Se <500
Bi <1 Gd <0.1 Na <30 Sm <0.1
Ca <50 Ge <100 Nb <1 Sn <50
Cd <1 Hf <0.1 Nd <0.1 Sr <1
Ce <0.1 Hg <50 Ni <20 Ta <20
Co <1 Ho <0.1 Pb <5 Tb <0.1
Cr <10 In <1 Pd <10 Te <10
Cs <1 K <50 Pr <0.1 Th <0.1
Cu <5 La <1 Pt <10 Ti <50
Tl<1
Tm <0.1
U <0.1
V<5
W<5
Y<1
Yb <0.1
Zn <20
Zr<5

Water UpA — SS02

1LT SS02M

H2O MW18.02 FP0.0°C BP 100.0°C CAS [7732-18-5]
Trace elemental impurities: parts per trillion level
Trace anionic impurities: parts per billion level
Batch values reported on accompanying Certi cate of Analysis
Equivalent to ASTM D1193 Type I
Application: Ultra trace inorganic analysis
Typical values,elemental impurities at timeof manufacture(ppt):

Ag <5 Cs <0.1 K <10 Pr <0.1
Al <20 Cu <5 La <0.1 Pt <1
As <10 Dy <0.1 Li <1 Rb <1
Au <10 Er <0.1 Lu <0.1 Re <1
B <20 Eu <0.1 Mg <5 Rh <1
Ba <1 Fe <10 Mn <1 Ru <1
Be <5 Ga <1 Mo <1 Sb <10
Bi <0.1 Gd <0.1 Na <10 Sc <1
Ca <10 Ge <1 Nb <1 Se <50
Cd <1 Hf <0.1 Nd <0.1 Sm <0.1
Ce <0.1 Hg <20 Ni <10 Sn <10
Co <1 Ho <0.1 Pb <1 Sr <1
Cr <10 In <1 Pd <5 Ta <10 Typical values, anionic impurities at time of manufacture (ppb):
Cl <1 PO4 <1 SO4 <1
Tb <0.1
Te<1
Th <0.1
Ti <10
Tl <0.1
Tm <0.1
U <0.1
V<1
W<10
Y<1
Yb <0.1
Zn <10
Zr<1

ROMIL High Purity Aqueous Mixes

for instrumental techniques

ROMIL-SpA™ Ion Chromatography Solutions Specifications

IC Eluant, Regenerant & Concentrate mixes

IC Concentrate CHC1 SpA

carbonate/hydrogen carbonate — *RJ183*

1LT RJ183M
2½LT RJ183L

3 components:
Water (ROMIL H951)
containing
Sodium Carbonate anhydrous 64 mM
Sodium Hydrogen Carbonate 20 mM
Protect from atmospheric CO2.
Application: Eluant concentrate (20x) for ion chromatography, Metrosep A Supp 5

IC Concentrate DPAN1 SpA

dipicolinic acid/nitric acid — *RJ239*

1LT RJ239M
2½LT RJ239L

3 components:
Water (ROMIL H951)
containing
Dipicolinic Acid 17 mM
Nitric Acid 17 mM
Protect from atmospheric CO2.
Application: Eluantconcentrate(10x)forion chromatography, Metrosep C 6

IC Concentrate DPAN2 SpA

dipicolinic acid/nitric acid — *RJ328*

1LT RJ328M
2½LT RJ328L

3 components:
Water (ROMIL H951)
containing
Dipicolinic Acid 14 mM
Nitric Acid 34 mM
Protect from atmospheric CO2.
Application: Eluantconcentrate(20x)forionchromatography, Metrosep C 4

IC Concentrate mix PHSF1 SpA

pdca/hydroxide/sulphate/formic acid — *RJ812*

1LT RJ812M
2½LT RJ812L
Wng H:315-319
P:302+352-305+351+338

5 components:
Water (ROMIL H951)
containing
Pyridine-2,6-dicarboxylic acid (PDCA) 35 mM
Potassium Hydroxide 330 mM
Potassium Sulphate 28 mM
Formic Acid 370 mM
pH after dilution 4.2 ±0.1
Protect from atmospheric CO2.
Application: Eluant concentrate(5x)forionchromatography, equivalent to Dionex 046088

Dionex is a registeredtrademark of DionexCorporation

IC Diluent mix DHHC1 SpA

dmae/hydroxide/hydrogen carbonate — *RJ407*

1LT RJ407M
2½LT RJ407L
Dgr H:314-318-335-412
P:280c-260-273-303+361+353-305+351+338-304+340-312

4 components:
Water (ROMIL H951)
containing
2-Dimethylaminoethanol (DMAE) 1 M
Ammonium Hydroxide 0.5 M
Sodium Hydrogen Carbonate 0.3 M
pH 10.4 ±0.2
Absorbance after addition of 4-(2-pyridylazo)resorcinol (PAR) 0.5 mM:
530nm <0.5 AU
Protect from atmospheric CO2.
Application: Postcolumn diluent solution for ion chromatography for detection of transition metals, equivalent to Dionex 046094

Dionex is a registeredtrademark of DionexCorporation

IC Eluant C2 SpA

sodium carbonate 3.6 mM — *RJ924*

1LT RJ924M
2½LT RJ924L

2 components:
Water (ROMIL H951)
containing
Sodium Carbonate 3.6 mM
Protect from atmospheric CO2.
Application: Eluant solution for ion chromatography

ROMIL High Purity Aqueous Mixes

for instrumental techniques

ROMIL-SpA™ Ion Chromatography Solutions Specifications

IC Eluant, Regenerant & Concentrate mixes

IC Eluant N2 SpA

nitric acid 7.25 mM — RJ701

1LT RJ701M
2½LT RJ701L

2 components:
Water (ROMIL H951)
containing
Nitric Acid 7.25 mM
Protect from atmospheric CO2.
Application: Eluant solution for ion chromatography, Metrosep Fast C6

IC Regenerant CHC2 SpA

carbonate/hydrogen carbonate — RJ511

1LT RJ511M
2½LT RJ511L

3 components:
Water (ROMIL H951)
containing
Sodium Carbonate anhydrous 70 mM
Sodium Hydrogen Carbonate 70 mM
Protect from atmospheric CO2.
Application: Cation suppressor regenerant solution for ion chromatography

IC Regenerant OS1 SpA

oxalate/sulphuric acid — RJ610

1LT RJ610M
2½LT RJ610L

3 components:
Water (ROMIL H951)
containing
Oxalic Acid 100 mM
Sulphuric Acid 500 mM
Protect from atmospheric CO2.
Application: Anion suppressor regenerant solution for ion chromatography, extends resin life by minimising chelation of transition metals

IC Regenerant RN1 SpA

rubidium/nitric acid — RJ306

1LT RJ306M
2½LT RJ306L

3 components:
Water (ROMIL H951)
containing
Rubidium Nitrate as Rb 1 mg/LT
Nitric Acid 100 mM
Protect from atmospheric CO2.
Application: Cation suppressor regenerant concentrate (20x) for ion chromatography, Metrosep C Supp 1 & 2

IC Wash solution E2 SpA

edta na2 3 mM — RJ623

500ml RJ623P
1LT RJ623M

2 components:
Water (ROMIL H951)
containing
EDTA di-Sodium salt 3 mM
Protect from atmospheric CO2.
Application: Wash solution for ion chromatography

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Acetic Acid 1M PrimAg-TvR

V1010

1LT V1010M
2½LT V1010L
5LT V1010K
10LT V1010J

CH3COOH MW60.05
Nominal concentration 1M (1N) ±0.5% @ 20°C
CH3COOH 60.05 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Acetic Acid 0.05M/0.1M/0.2M PrimAg-TvR

tri-concentrate

C2062

6x100ml C2062Q

CH3COOH MW 60.05
1M (1N) nominal concentrate ±0.5% @ 20°C
CH3COOH 60.05 g/LT
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.05M (0.05N)
Dilute to 1.0LT yields 0.1M (0.1N)
Dilute to 0.5LT yields 0.2M (0.2N)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains6vials eachcontaining100mlof concentrate.

Ammonia 5M PrimAg-TvR

in ethanol/water 69:31

V1205

2½LT V1205L
Dgr H:225-314-335
P:210-280c-304+340-305+351+338-309+310

NH3 MW 17.03
Nominal concentration 5M (5N) ±0.5% @ 20°C
NH3 85.15 g/LT
Solvent: CH3CH2OH/H2O 69:31 v/v
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Ammonium Cerium(IV) Sulphate 0.1M PrimAg-TvR

V0218

1LT V0218M
2½LT V0218L
Wng H:290-315-319
P:302+352-305+351+338

(NH4)4Ce(SO4)4 MW596.52
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
(NH4)4Ce(SO4)4 59.65 g/LT
H2SO4 150 g/LT
Application: Stable alternative to potassium permanganate in oxidation titrimetry
ISO17034 accreditedSI-traceable

Ammonium Hydroxide 5M PrimAg-TvR

V3297

1LT V3297M
2½LT V3297L
Dgr H:314-335
P:280c-301+330+331-304+340-305+351+338-309+310

NH4OH MW35.05
Nominal concentration 5M (5N) ±0.5% @ 20°C
NH4OH 175.3g/LT
Application:Reagentfor volumetrictitrimetry
ISO17034 accreditedSI-traceable

di-Ammonium Iron(II) Sulphate 0.025M PrimAg-TvR

V0224

1LT V0224M
2½LT V0224L

(NH4)2Fe(SO4)2 MW284.01
Nominal concentration 0.025M (0.025N)
(NH4)2Fe(SO4)2 7.100 g/LT
Stabiliser: H2SO4 5 g/LT
Calibrate by titration with either Ce(SO4)2, K2Cr2O7 or KMnO4 of equivalent molarity immediately before each use.
Application: Reagent for volumetrictitrimetry

di-Ammonium Iron(II) Sulphate 0.1M PrimAg-TvR

V0242

1LT V0242M
2½LT V0242L

(NH4)2Fe(SO4)2 MW284.01
Nominal concentration 0.1M (0.1N)
(NH4)2Fe(SO4)2 28.40 g/LT
Stabiliser: H2SO4 5 g/LT
Calibrate by titration with either Ce(SO4)2, K2Cr2O7 or KMnO4 of equivalent molarity immediately before each use.
Application: Reagent for volumetric titrimetry

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

di-Ammonium Iron(II) Sulphate 0.3M PrimAg-TvR

V0235

1LT V0235M
2½LT V0235L

(NH4)2Fe(SO4)2 MW284.01
Nominal concentration 0.3M (0.3N)
(NH4)2Fe(SO4)2 85.20 g/LT
Stabiliser: H2SO4 5 g/LT
Calibrate by titration with either Ce(SO4)2, K2Cr2O7 or KMnO4 of equivalent molarity immediately before each use.
Application: Reagent for volumetrictitrimetry

Ammonium Thiocyanate 0.1M PrimAg-TvR

V2703

1LT V2703M
2½LT V2703L
5LT V2703K
10LT V2703J

NH4SCN MW76.12
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
NH4SCN 7.612 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Benzethonium Chloride *M (see Hyamine 1622 *M)

Barium Hydroxide 0.05M PrimAg-TvR

V1279

1LT V1279M
2½LT V1279L

Ba(OH)2 MW171.34
Nominal concentration 0.05M (0.1N) ±0.5% @ 20°C
Ba(OH)2 8.567 g/LT
Manufactured and lled under N2.
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Calcium Chloride 0.25M PrimAg-TvR

V3191

1LT V3191M
2½LT V3191L
5LT V3191K
10LT V3191J

CaCl2 MW110.99
Nominal concentration 0.25M (0.5N) ±0.5% @ 20°C
CaCl2 27.75 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Calcium Chloride 1M PrimAg-TvR

V2182

1LT V2182M
2½LT V2182L
5LT V2182K
10LT V2182J

CaCl2 MW110.99
Nominal concentration 1M (2N) ±0.5% @ 20°C
CaCl2 111.0 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Cerium(IV) Sulphate 0.05M/0.1M PrimAg-TvR

di-concentrate

C3875

6x100ml C3875Q
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

Ce(SO4)2 MW 332.22
0.5M (0.5N) nominal concentrate ±0.5% @ 20°C
Ce(SO4)2 166.1 g/LT
H2SO4 200 g/LT
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 1.0LT yields 0.05M (0.05N)
Dilute to 0.5LT yields 0.1M (0.1N)
Application: Stable alternative to potassium permanganate in oxidation titrimetry

ISO 17034accredited SI-traceable
Pack contains6vials eachcontaining100mlofconcentrate.

Cerium(IV) Sulphate 0.1M PrimAg-TvR

in sulphuric acid 4%

V2764

1LT V2764M
2½LT V2764L
Wng H:290-315-319
P:302+352-305+351+338

Ce(SO4)2 MW 332.22
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
Ce(SO4)2 33.22 g/LT
H2SO4 40 g/LT
Application: Stable alternative to potassium permanganate in oxidation titrimetry
ISO17034 accreditedSI-traceable

Cerium(IV) Sulphate 0.1M PrimAg-TvR

in sulphuric acid 10%

V4582

1LT V4582M
2½LT V4582L
Wng H:290-315-319
P:302+352-305+351+338

Ce(SO4)2 MW332.22
Nominal concetration0.1M(0.1N)±0.5%@20°C
Ce(SO4)2 33.22g/LT
H2SO4 100 g/LT
Application: Stable alternative to potassium permanganate in oxidation titrimetry
ISO17034 accreditedSI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Dodecylbenzenesulphonic Acid 0.002M PrimAg-TvR

sodium salt — V2543

1LT V2543M
2½LT V2543L

(Sodium Dodecylbenzenesulphonate 0.002M)
CH3(CH2)11C6H4SO3.Na MW348.48
Nominal concentration 0.002M ±0.5% @ 20°C
CH3(CH2)11C6H4SO3.Na 0.6970 g/LT
Application: Determination of cationic surfactants
ISO17034 accreditedSI-traceable

EDTA di-Sodium salt 0.01M PrimAg-TvR

V2934

1LT V2934M
2½LT V2934L
5LT V2934K
10LT V2934J

C10H14N2O8Na2 MW 336.20
Nominal concentration 0.01M (0.02N) ±0.5% @ 20°C
C10H14N2O8Na2 3.362 g/LT
Application: Reagent for volumetric titrimetry
ISO 17034 accredited SI-traceable

EDTA di-Sodium salt 0.02M PrimAg-TvR

V1823

1LT V1823M
2½LT V1823L
5LT V1823K
10LT V1823J

C10H14N2O8Na2 MW 336.20
Nominal concentration 0.02M (0.04N) ±0.5% @ 20°C
C10H14N2O8Na2 6.724 g/LT
Application: Reagent for volumetric titrimetry
ISO 17034 accredited SI-traceable

EDTA di-Sodium salt 0.01M/0.02M/0.04M PrimAg-TvR

tri-concentrate — C5263

6x100ml C5263Q

C10H14N2O8Na2 MW 336.20
0.2M (0.4N) nominal concentrate ±0.5% @ 20°C
C10H14N2O8Na2 67.24 g/LT
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.01M (0.02N)
Dilute to 1.0LT yields 0.02M (0.04N)
Dilute to 0.5LT yields 0.04M (0.08N)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains6vials eachcontaining100mlofconcentrate.

EDTA di-Sodium salt 0.05M PrimAg-TvR

V3623

1LT V3623M
2½LT V3623L
5LT V3623K
10LT V3623J

C10H14N2O8Na2 MW 336.20
Nominal concentration 0.05M (0.1N) ±0.5% @ 20°C
C10H14N2O8Na2 16.81 g/LT
Application: Reagent for volumetric titrimetry
ISO 17034 accredited SI-traceable

EDTA di-Sodium salt 0.1M PrimAg-TvR

V3045

1LT V3045M
2½LT V3045L
5LT V3045K
10LT V3045J

C10H14N2O8Na2 MW 336.20
Nominal concentration 0.1M (0.2N) ±0.5% @ 20°C
C10H14N2O8Na2 33.62 g/LT
Application: Reagent for volumetric titrimetry
ISO 17034 accredited SI-traceable

Hyamine 1622 0.004M PrimAg-TvR

V7846

1LT V7846M
2½LT V7846L
Wng H:315-319-411
P:273-302+352-305+351+338

(Benzethonium Chloride 0.004M)
C27H42NO2Cl MW448.08
Nominal concentration 0.004M
C27H42NO2Cl 1.792 g/LT
Calibrate by titration with Sodium Dodecyl Sulphate immediately before each use.
Application: Determination of anionic surfactants
Hyamine is a registered trademark of Lonza Inc

Hyamine 1622 0.04M PrimAg-TvR

V6236

1LT V6236M
2½LT V6236L
Wng H:315-319-411
P:273-302+352-305+351+338

(Benzethonium Chloride 0.04M)
C27H42NO2Cl MW448.08
Nominal concentration 0.04M
C27H42NO2Cl 17.92 g/LT
Calibrate by titration with Sodium Dodecyl Sulphate immediately before each use.
Application: Determination of anionic surfactants
Hyamine is a registered trademark of Lonza Inc

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Dodecylbenzenesulphonic Acid 0.002M PrimAg-TvR

V2543

sodium salt

1LT V2543M
2½LT V2543L

(Sodium Dodecylbenzenesulphonate 0.002M)
CH3(CH2)11C6H4SO3.Na MW348.48
Nominal concentration 0.002M ±0.5% @ 20°C
CH3(CH2)11C6H4SO3.Na 0.6970 g/LT
Application: Determination of cationic surfactants
ISO17034 accreditedSI-traceable

EDTA di-Sodium salt 0.01M PrimAg-TvR

V2934

1LT V2934M
2½LT V2934L
5LT V2934K
10LT V2934J

C10H14N2O8Na2 MW 336.20
Nominal concentration 0.01M (0.02N) ±0.5% @ 20°C
C10H14N2O8Na2 3.362 g/LT
Application: Reagent for volumetric titrimetry
ISO 17034 accredited SI-traceable

EDTA di-Sodium salt 0.02M PrimAg-TvR

V1823

1LT V1823M
2½LT V1823L
5LT V1823K
10LT V1823J

C10H14N2O8Na2 MW 336.20
Nominal concentration 0.02M (0.04N) ±0.5% @ 20°C
C10H14N2O8Na2 6.724 g/LT
Application: Reagent for volumetric titrimetry
ISO 17034 accredited SI-traceable

EDTA di-Sodium salt 0.01M/0.02M/0.04M PrimAg-TvR

tri-concentrate

C5263

6x100ml C5263Q

C10H14N2O8Na2 MW 336.20
0.2M (0.4N) nominal concentrate ±0.5% @ 20°C
C10H14N2O8Na2 67.24 g/LT
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.01M (0.02N)
Dilute to 1.0LT yields 0.02M (0.04N)
Dilute to 0.5LT yields 0.04M (0.08N)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains6vials eachcontaining100mlofconcentrate.

EDTA di-Sodium salt 0.05M PrimAg-TvR

V3623

1LT V3623M
2½LT V3623L
5LT V3623K
10LT V3623J

C10H14N2O8Na2 MW 336.20
Nominal concentration 0.05M (0.1N) ±0.5% @ 20°C
C10H14N2O8Na2 16.81 g/LT
Application: Reagent for volumetric titrimetry
ISO 17034 accredited SI-traceable

EDTA di-Sodium salt 0.1M PrimAg-TvR

V3045

1LT V3045M
2½LT V3045L
5LT V3045K
10LT V3045J

C10H14N2O8Na2 MW 336.20
Nominal concentration 0.1M (0.2N) ±0.5% @ 20°C
C10H14N2O8Na2 33.62 g/LT
Application: Reagent for volumetric titrimetry
ISO 17034 accredited SI-traceable

Hyamine 1622 0.004M PrimAg-TvR

V7846

1LT V7846M
2½LT V7846L
Wng H:315-319-411
P:273-302+352-305+351+338

(Benzethonium Chloride 0.004M)
C27H42NO2Cl MW448.08
Nominal concentration 0.004M
C27H42NO2Cl 1.792 g/LT
Calibrate by titration with Sodium Dodecyl Sulphate immediately before each use.
Application: Determination of anionic surfactants
Hyamine is a registered trademark of Lonza Inc

Hyamine 1622 0.04M PrimAg-TvR

V6236

1LT V6236M
2½LT V6236L
Wng H:315-319-411
P:273-302+352-305+351+338

(Benzethonium Chloride 0.04M)
C27H42NO2Cl MW448.08
Nominal concentration 0.04M
C27H42NO2Cl 17.92 g/LT
Calibrate by titration with Sodium Dodecyl Sulphate immediately before each use.
Application: Determination of anionic surfactants
Hyamine is a registered trademark of Lonza Inc

info@rikiglobal.com www.rikiglobal.com +91-9908246695 +91-40-35172288/89

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Hyamine 1622 0.05M PrimAg-TvR V4868

1LT V4868M
2½LT V4868L
Wng H:315-319-411
P:273-302+352-305+351+338

(Benzethonium Chloride 0.05M)
C27H42NO2Cl MW448.08
Nominal concentration 0.05M
C27H42NO2Cl 22.40 g/LT
Calibrate by titration with Sodium Dodecyl Sulphate immediately before each use.
Application: Determination of anionic surfactants
Hyamine is a registered trademark of Lonza Inc

Hyamine 1622 0.1M PrimAg-TvR V5979

1LT V5979M
2½LT V5979L
Wng H:315-319-411
P:273-302+352-305+351+338

(Benzethonium Chloride 0.1M)
C27H42NO2Cl MW448.08
Nominal concentration 0.1M
C27H42NO2Cl 44.81 g/LT
Calibrate by titration with Sodium Dodecyl Sulphate immediately before each use.
Application: Determination of anionic surfactants
Hyamine is a registered trademark of Lonza Inc

Hydrochloric Acid 0.01M PrimAg-TvR V3604

1LT V3604M
2½LT V3604L
5LT V3604K
10LT V3604J

HCl MW 36.46
Nominal concentration 0.01M (0.01N) ±0.5% @ 20°C
HCl 0.3646 g/LT
Application: Reagentfor volumetrictitrimetry

Hydrochloric Acid 0.02M PrimAg-TvR V3718

1LT V3718M
2½LT V3718L
5LT V3718K
10LT V3718J

HCl MW 36.46
Nominal concentration 0.02M (0.02N) ±0.5% @ 20°C
HCl 0.7292 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Hydrochloric Acid 0.04M PrimAg-TvR
high accuracy V9504

1LT V9504M
2½LT V9504L
Wng H:290

HCl MW 36.46
Nominal concentration 0.04M (0.04N) ±0.01% @ 20°C
HCl 1.4584 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Hydrochloric Acid 0.1M PrimAg-TvR V3721

1LT V3721M
2½LT V3721L
5LT V3721K
10LT V3721J
Wng H:290

HCl MW 36.46
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
HCl 3.646 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Hydrochloric Acid 0.05M/0.1M/0.2M PrimAg-TvR
tri-concentrate C4832

6x100ml C4832Q
Wng H:290

HCl MW 36.46
1M (1N) nominal concentrate ±0.5% @ 20°C
HCl 36.46 g/LT
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.05M (0.05N)
Dilute to 1.0LT yields 0.1M (0.1N)
Dilute to 0.5LT yields 0.2M (0.2N)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains6vials eachcontaining100mlofconcentrate.

Hydrochloric Acid 0.2M PrimAg-TvR V3723

1LT V3723M
2½LT V3723L
5LT V3723K
10LT V3723J
Wng H:290

HCl MW 36.46
Nominal concentration 0.2M (0.2N) ±0.5% @ 20°C
HCl 7.292 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Hydrochloric Acid 0.2M PrimAg-TvR
high accuracy — V9521

1LT V9521M
2½LT V9521L
Wng H:290

HCl MW 36.46
Nominal concentration 0.2M (0.2N) ±0.01% @ 20°C
HCl 7.2920 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Hydrochloric Acid 0.5M PrimAg-TvR — V3725

1LT V3725M
2½LT V3725L
5LT V3725K
10LT V3725J
Wng H:290

HCl MW 36.46
Nominal concentration 0.5M (0.5N) ±0.5% @ 20°C
HCl 18.23 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Hydrochloric Acid 0.25M/0.5M/1M PrimAg-TvR
tri-concentrate — C3462

6x100ml C3462Q
Wng H:290-315-319-335
P:302+352-305+351+338

HCl MW 36.46
5M (5N) nominal concentrate ±0.5% @ 20°C
HCl 182.3 g/LT
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.25M (0.25N)
Dilute to 1.0LT yields 0.5M (0.5N)
Dilute to 0.5LT yields 1M (1N)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains6vials eachcontaining100mlofconcentrate.

Hydrochloric Acid 1M PrimAg-TvR — V3772

1LT V3772M
2½LT V3772L
5LT V3772K
10LT V37 72J
Wng H:290

HCl MW 36.46
Nominal concentration 1M (1N) ±0.5% @ 20°C
HCl 36.46 g/LT
Applica tion: Reagent for v olumetric titrim etry
ISO17034 accreditedSI-traceable

Hydrochloric Acid 1M PrimAg-TvR
high accuracy — V9532

1LT V9532M
2½LT V9532L
Wng H:290

HCl MW 36.46
Nominal concentration 1M (1N) ±0.01% @ 20°C
HCl 36.460 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Hydrochloric Acid 2M PrimAg-TvR — V3775

1LT V3775M
2½LT V3775L
5LT V3775K
10LT V3775J
Wng H:290

HCl MW 36.46
Nominal concentration 2M (2N) ±0.5% @ 20°C
HCl 72.92 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Hydrochloric Acid 3M PrimAg-TvR — V4758

1LT V4758M
2½LT V4758L
5LT V4758K
10LT
V4758J
Wng H:290-315-319-335
P:302+352-305+351+338

HCl MW36.46
Nominal concentration 3M (3N) ±0.5% @ 20°C
HCl 109.4 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Hydrochloric Acid 4M PrimAg-TvR — V3736

1LT V3736M
2½LT V3736L
5LT V3736K
10LT V3736J
Wng H:290-315-319-335
P:302+352-305+351+338

HCl MW 36.46
Nominal concentration 4M (4N) ±0.5% @ 20°C
HCl 145.8 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Hydrochloric Acid 5M PrimAg-TvR — V3777

1LT V3777M
2½LT V3777L
5LT V3777K
10LT V3777J
Wng H:290-315-319-335
P:302+352-305+351+338

HCl MW 36.46
Nominal concentration 5M (5N) ±0.5% @ 20°C
HCl 182.3 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Hydro uoric Acid 3M PrimAg-TvR — V5253

1LT V5253M
Dgr H:301+331-310-314
P:280-301+330+331-302+352-304+340-305+351+338-309+310

HF MW 20.01
Nominal concentration 3M (3N) ±0.5% @ 20°C
HF 60.02 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Iodine 0.0236M PrimAg-TvR — V3292

1LT V3292M
2½LT V3292L
Dgr H:372-401
P:260v-264-273-314

I2 MW253.81
Nominal concentration 0.0236M (0.0473N) ±0.5% @ 20°C
I2 5.990 g/LT
KI 57 g/LT
Store in dark.
Application: ASTM Iodine absorption number test
ISO17034 accreditedSI-traceable

Iodine 0.025M PrimAg-TvR — V5337

1LT V5337M
2½LT V5337L
Dgr H:372-401
P:260v-264-273-314

I2 MW253.81
Nominal concentration 0.025M (0.05N) ±0.5% @ 20°C
I2 6.345 g/LT
KI 10 g/LT
Store in dark.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Iodine 0.05M PrimAg-TvR — V5056

1LT V5056M
2½LT V5056L
Dgr H:372-401
P:260v-264-273-314

I2 MW253.81
Nominal concentration 0.05M (0.1N) ±0.5% @ 20°C
I2 12.69 g/LT
KI 20 g/LT
Store in dark.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Iodine 0.025M/0.05M/0.1M PrimAg-TvR tri-concentrate — C6167

6x100ml C6167Q
Dgr H:372-401
P:260v-264-273-314

I2 MW 253.81
0.5M (1N) nominal concentrate ±0.5% @ 20°C
I2 126.9 g/LT
KI 200 g/LT
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.025M (0.05N)
Dilute to 1.0LT yields 0.05M (0.1N)
Dilute to 0.5LT yields 0.1M (0.2N)
Store in dark.
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains6vials eachcontaining100ml of concentrate.

Iodine 0.5M PrimAg-TvR — V4043

500ml V4043P
1LT V4043M
2½LT V4043L
Dgr H:372-401
P:260v-264-273-314

I2 MW253.81
Nominal concentration 0.5M (1N) ±0.5% @ 20°C
I2 126.9 g/LT
KI 200 g/LT
Store in dark.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Nitric Acid 0.02M PrimAg-TvR — V5311

1LT V5311M
2½LT V5311L
5LT V5311K
10LT V5311J

HNO3 MW 63.01
Nominal concentration 0.02M (0.02N) ±0.5% @ 20°C
HNO3 1.260 g/LT
Stabiliser: Hg(NO3)2.½H2O 10 ppm
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Nitric Acid 0.02M PrimAg-TvR — V5311

1LT V5311M
2½LT V5311L
5LT V5311K
10LT V5311J

HNO3 MW 63.01
Nominal concentration 0.02M (0.02N) ±0.5% @ 20°C
HNO3 1.260 g/LT
Stabiliser: Hg(NO3)2.½H2O 10 ppm
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Nitric Acid 0.1M PrimAg-TvR — V4813

1LT V4813M
2½LT V4813L
5LT V4813K
10LT V4813J

HNO3 MW63.01
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
HNO3 6.301 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Nitric Acid 0.5M PrimAg-TvR — V3642

1LT V3642M
2½LT V3642L
5LT V3642K
10LT V3642J
Dgr H:315-318
P:280e-302+352-305+351+338-310

HNO3 MW63.01
Nominal concentration 0.5M (0.5N) ±0.5% @ 20°C
HNO3 31.51 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Nitric Acid 1M PrimAg-TvR — V4257

1LT V4257M
2½LT V4257L
5LT V4257K
10LT V4257J
Dgr H:290-314-EUH071
P:280c-302+352-305+351+338-310

HNO3 MW63.01
Nominal concentration 1M (1N) ±0.5% @ 20°C
HNO3 63.01 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Nitric Acid 4M PrimAg-TvR — V4468

1LT V4468M
2½LT V4468L
5LT V4468K
10LT V4468J
Dgr H:290-314-EUH071
P:280c-301+330+331-305+351+338-309+310

HNO3 MW63.01
Nominal concentration 4M (4N) ±0.5% @ 20°C
HNO3 252.0 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Nitric Acid 8M PrimAg-TvR — V5419

1LT V5419M
2½LT V5419L
5LT V5419K
10LT V5419J
Dgr H:290-314-EUH071
P:280c-301+330+331-305+351+338-309+310

HNO3 MW63.01
Nominal concentration 8M (8N) ±0.5% @ 20°C
HNO3 504.0 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Oxalic Acid 0.05M PrimAg-TvR — V0361

1LT V0361M
2½LT V0361L
5LT V0361K
10LT V0361J

(COOH)2 MW90.03
Nominal concentration 0.05M (0.1N) ±0.5% @ 20°C
(COOH)2 4.502 g/LT
Protect from air.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Perchloric Acid 0.1M PrimAg-TvR in acetic acid — V6373

500ml V6373P
1LT V6373M
2½LT V6373L
Dgr H:226-314
P:280c-301+330+331-305+351+338-307+310

HClO4 MW 100.46
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
HClO4 10.05 g/LT
Solvent: CH3COOH
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Potassium Bromate/Bromide 0.1N PrimAg-TvR

V7391

1LT V7391M
2½LT V7391L
Dgr H:350
P:201-308+313

KBrO3 MW167.01
Nominal concentration 0.1N (0.0167M) ±0.5% @ 20°C
KBrO3 2.784 g/LT
KBr 10 g/LT
Application: Reagent for volumetric titrimetry

Potassium Bromate/Bromide 0.05N/0.1N/0.2N PrimAg-TvR

tri-concentrate

C6482

6x120ml C6482Q
Dgr H:350
P:201-308+313

KBrO3 MW 167.01
0.833N (0.139M) nominal concentrate ±0.5% @ 20°C
KBrO3 23.20 g/LT
KBr 83 g/LT
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.05N (0.0083M)
Dilute to 1.0LT yields 0.1N (0.0167M)
Dilute to 0.5LT yields 0.2N (0.0333M)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains6vials eachcontaining120mlofconcentrate.

Potassium Chloride 0.001M PrimAg-TvR

V7506

1LT V7506M
2½LT V7506L
5LT V7506K

KCl MW 74.55
Nominal concentration 0.001M (0.001N) ±0.5% @ 20°C
KCl 0.0746 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Dichromate 0.025N PrimAg-TvR

V4482

1LT V4482M
2½LT V4482L
5LT V4482K
10LT V4482J
Dgr H:350-340-360FD-334-317-413
P:201-273-280g-302+352-304+341-308+313

K2Cr2O7 MW294.18
Nominal concentration 0.025N (0.004167M) ±0.5% @ 20°C
K2Cr2O7 1.226 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Dichromate 0.1N PrimAg-TvR

V5364

1LT V5364M
2½LT V5364L
5LT V5364K
10LT V5364J
Dgr H:317-334-340-350-360FD-412
P:201-273-302+352-308+313

K2Cr2O7 MW294.18
Nominal concentration 0.1N (0.016667M) ±0.5% @ 20°C
K2Cr2O7 4.903 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Dichromate 0.125N PrimAg-TvR

V6475

1LT V6475M
2½LT V6475L
5LT V6475K
10LT V6475J
Dgr H:317-334-340-350-360FD-412
P:201-273-302+352-308+313

K2Cr2O7 MW294.18
Nominal concentration 0.125N (0.020833M) ±0.5% @ 20°C
K2Cr2O7 6.129 g/LT
Application: COD analysis
ISO 17034 accredited SI-traceable

Potassium Dichromate 0.25N PrimAg-TvR

V7786

1LT V7786M
2½LT V7786L
5LT V7786K
10LT V7786J
Dgr H:315-319-317-334-340-350-360FD-373-412
P:201-273-302+352-308+313

K2Cr2O7 MW294.18
Nominal concentration 0.25N (0.04167M) ±0.5% @ 20°C
K2Cr2O7 12.26 g/LT
Application:Reagentfor volumetric titrimetry
ISO 17034 accredited SI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Potassium Hydroxide 0.01M PrimAg-TvR V5784

1LT V5784M
2½LT V5784L
5LT V5784K
10LT V5784J

KOH MW 56.11
Nominal concentration 0.01M (0.01N) ±0.5% @ 20°C
KOH 0.5611 g/LT
K2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagentforvolumetric titrimetry
ISO 17034 accredited SI-traceable

Potassium Hydroxide 0.05M PrimAg-TvR V6675

1LT V6675M
2½LT V6675L
5LT V6675K
10LT V6675J

KOH MW 56.11
Nominal concentration 0.05M (0.05N) ±0.5% @ 20°C
KOH 2.806 g/LT
K2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagentforvolumetric titrimetry
ISO 17034 accredited SI-traceable

Potassium Hydroxide 0.1M PrimAg-TvR V6261

1LT V6261M
2½LT V6261L
5LT V6261K
10LT V6261J
Wng H:315-319
P:302+352-305+351+338

KOH MW 56.11
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
KOH 5.611 g/LT
K2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagentforvolumetric titrimetry
ISO 17034 accredited SI-traceable

Potassium Hydroxide 0.5M PrimAg-TvR V5169

1LT V5169M
2½LT V5169L
5LT V5169K
10LT V5169J
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

KOH MW 56.11
Nominal concentration 0.5M (0.5N) ±0.5% @ 20°C
KOH 28.06 g/LT
K2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagentforvolumetric titrimetry
ISO 17034 accredited SI-traceable

Potassium Hydroxide 1M PrimAg-TvR V3360

1LT V3360M
2½LT V3360L
5LT V3360K
10LT V3360J
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

KOH MW 56.11
Nominal concentration 1M (1N) ±0.5% @ 20°C
KOH 56.11 g/LT
K2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagentforvolumetric titrimetry
ISO 17034 accredited SI-traceable

Potassium Hydroxide 0.5M PrimAg-TvR in industrial denatured alcohol 99 V5322

1LT V5322M
2½LT V5322L
Dgr H:225-290-314-302-371
P:210-260v-280-301+330+331-305+351+338-309+310

KOH MW 56.11
Nominal concentration 0.5M (0.5N) ±0.5% @ 20°C
KOH 28.06 g/LT
Solvent: industrial denatured alcohol 99
K2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagentforvolumetric titrimetry
ISO 17034 accredited SI-traceable *Not for export.*

Potassium Hydroxide 0.1M PrimAg-TvR in methanol V3528

1LT V3528M
2½LT V3528L
Dgr H:225-301+311+331-315-319-370
P:210-280f-302+352-305+351+338-309+310-403+235

KOH MW 56.11
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
KOH 5.611 g/LT
Solvent: CH3OH
K2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagentforvolumetric titrimetry
ISO 17034 accredited SI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Potassium Hydroxide 0.5M PrimAg-TvR
in methanol — V4326

1LT V4326M
2½LT V4326L
Dgr H:225-290-314-301+311+331-370
P:210-280-302+352-305+351+338-309+310-403+235

KOH MW 56.11
Nominal concentration 0.5M (0.5N) ±0.5% @ 20°C
KOH 28.06 g/LT
Solvent: CH3OH
K2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Hydroxide 1M PrimAg-TvR
in methanol — V7601

1LT V7601M
2½LT V7601L
Dgr H:225-290-314-301+311+331-370
P:210-280-302+352-305+351+338-309+310-403+235

KOH MW 56.11
Nominal concentration 1M (1N) ±0.5% @ 20°C
KOH 56.11 g/LT
Solvent: CH3OH
K2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Hydroxide 0.01M PrimAg-TvR
in propan-2-ol — V6850

1LT V6850M
2½LT V6850L
Dgr H:225-319-336
P:210-233-305+351+338

KOH MW 56.11
Nominal concentration 0.01M (0.01N) ±0.5% @ 20°C
KOH 0.5611 g/LT
Solvent: (CH3)2CHOH
K2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Hydroxide 0.1M PrimAg-TvR
in propan-2-ol — V5749

1LT V5749M
2½LT V5749L
Dgr H:225-315-319-336
P:210-233-302+352-305+351+338

KOH MW 56.11
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
KOH 5.611 g/LT
Solvent: (CH3)2CHOH
K2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Iodate 0.1N PrimAg-TvR — V4217

1LT V4217M
2½LT V4217L
5LT V4217K
10LT V4217J

KIO3 MW 214.00
Nominal concentration 0.1N (0.0167M) ±0.5% @ 20°C
KIO3 3.574 g/LT
Stabiliser: HgCl2 10 ppm
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Iodate 0.2N PrimAg-TvR — V5318

1LT V5318M
2½LT V5318L
5LT V5318K
10LT V5318J

KIO3 MW 214.00
Nominal concentration 0.2N (0.0333M) ±0.5% @ 20°C
KIO3 7.126 g/LT
Stabiliser: HgCl2 10 ppm
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Iodate 0.3N PrimAg-TvR — V6439

1LT V643 9M
2½LT V6439L
5LT V6439K
10LT V6439J
Wng H:319
P:280e-305+351+338

KIO3 MW 214.00
Nominal concentration 0.3N (0.05M) ±0.5% @ 20°C
KIO3 10.70 g/LT
Stabiliser: HgCl2 10 ppm
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Iodate/Iodide 0.02N PrimAg-TvR — V6650

1LT V6650M
2½LT V6650L

KIO3 MW 214.00
Nominal concentration KIO3 0.02N (0.00333M ±0.5% @ 20°C
KIO3 0.7126 g/LT
KI 7.0 g/LT
Stabiliser: NaHCO3 0.5 g/LT + HgCl2 10 mg/LT
Application: BS 1427 (1962) Determination of sulphite in boiler water
ISO17034 accreditedSI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Potassium Methoxide 0.1M PrimAg-TvR
in toluene/methanol 83:17 — V5248

500ml V5248P
Dgr H:225-302+312+332-304-315-336-361d-370
P:210-240-280f-301+310-302+352-309+310-403-235

CH3OK FW 70.14
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
CH3OK 7.014 g/LT
Solvent: C6H5CH3/CH3OH 83:17 v/v
Protect from atmospheric CO2.
Application: Determination of weak carboxylic acids and their anhydrides, amides, imides and sulphonamides
ISO17034 accreditedSI-traceable

Potassium Permanganate 0.02M PrimAg-TvR — V6743

1LT V6743M
2½LT V6743L
H:41
2
P:273

KMnO4 MW 158.03
Nominal concentration 0.02M (0.1N) ±0.5% @ 20°C
KMnO4 3.161 g/LT
Store in dark.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Permanganate 0.035M PrimAg-TvR — V6563

1LT V6563M
2½LT V6563L
H:41
2
P:273

KMnO4 MW 158.03
Nominal concentration 0.035M (0.175N) ±0.5% @ 20°C
KMnO4 5.531 g/LT
Store in dark.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Permanganate 0.01M/0.02M/0.04M PrimAg-TvR
tri-concentrate — C7854

6x100ml C7854Q
H:41
1
P:273

KMnO4 MW 158.03
0.2M (1N) nominal concentrate ±0.5% @ 20°C
KMnO4 31.61 g/LT
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.01M (0.05N)
Dilute to 1.0LT yields 0.02M (0.1N)
Dilute to 0.5LT yields 0.04M (0.2N)
Store in dark.
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains 6 vials each containing 100ml of concentrate.

Potassium Permanganate 0.2M PrimAg-TvR — V5834

1LT V5834M
2½LT V5834L
H:41
1
P:273

KMnO4 MW 158.03
Nominal concentration 0.2M (1N) ±0.5% @ 20°C
KMnO4 31.61 g/LT
Store in dark.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Thiocyanate 0.05M PrimAg-TvR — V6824

1LT V6824M
2½LT V6824L
5LT V6824K
10LT V6824J

KSCN MW 97.18
Nominal concentration 0.05M (0.05N) ±0.5% @ 20°C
KSCN 4.859 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Potassium Thiocyanate 0.1M PrimAg-TvR — V7835

1LT V7835M
2½LT V7835L
5LT V7835K
10LT V7835J

KSCN MW 97.18
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
KSCN 9.718 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Dodecylbenzenesulphonate *M **(see Dodecylbenzenesulphonic Acid sodium salt *M)**

Sodium Lauryl Sulphate *M **(see Sodium Dodecyl Sulphate *M)**

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Silver Nitrate 0.001M PrimAg-TvR
in propan-2-ol/water 90:10
V6529

1LT V6529M
2½LT V6529L
Dgr H:225-319-336
P:210-233-305+351+338

AgNO3 MW 169.87
Nominal concentration 0.001M (0.001N) ±0.5% @ 20°C
AgNO3 0.1699 g/LT
Solvent: (CH3)2CHOH/H2O 90:10 v/v
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Silver Nitrate 0.01M PrimAg-TvR
V5476

1LT V5476M
2½LT V5476L
10LT V5476J

AgNO3 MW169.87
Nominal concentration 0.01M (0.01N) ±0.5% @ 20°C
AgNO3 1.699 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Silver Nitrate 0.01M PrimAg-TvR
in propan-2-ol/water 90:10
V7436

1LT V7436M
2½LT V7436L
Dgr H:225-315-319-336-410
P:210-233-273-302+352-305+351+338

AgNO3 MW 169.87
Nominal concentration 0.01M (0.01N) ±0.5% @ 20°C
AgNO3 1.699 g/LT
Solvent: (CH3)2CHOH/H2O 90:10 v/v
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Silver Nitrate 0.02M PrimAg-TvR
V4018

1LT V4018M
2½LT V4018L
10LT V4018J
Wng H:315-319-411
P:273-302+352-305+351+338

AgNO3 MW169.87
Nominal concentration 0.02M (0.02N) ±0.5% @ 20°C
AgNO3 3.397 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Silver Nitrate 0.0282M PrimAg-TvR
1 ml = 1 mg Cl-
V5331

1LT V5331M
2½LT V5331L
10LT V5331J
Wng H:315-319-411
P:273-302+352-305+351+338

AgNO3 MW169.87
Nominalconcentration 0.0282M(0.0282N)±0.5%@20°C
AgNO3 4.790 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Silver Nitrate 0.05M PrimAg-TvR
V3674

1LT V3674M
2½LT V3674L
10LT V3674J
Wng H:315-319-411
P:273-302+352-305+351+338

AgNO3 MW169.87
Nominal concentration 0.05M (0.05N) ±0.5% @ 20°C
AgNO3 8.494 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Silver Nitrate 0.1M PrimAg-TvR
V6666

1LT V6666M
2½LT V6666L
10LT V6666J
Wng H:315-319-411
P:273-302+352-305+351+338

AgNO3 MW169.87
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
AgNO3 16.99 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Silver Nitrate 0.05M/0.1M/0.2M PrimAg-TvR
C7777

tri-concentrate

6x100ml C7777Q
Dgr H:314-410
P:273-280c-301+330+331-305+351+338-309+310

AgNO3 MW 169.87
1M (1N) nominal concentrate ±0.5% @ 20°C
AgNO3 169.9 g/LT
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.05M (0.05N)
Dilute to 1.0LT yields 0.1M (0.1N)
Dilute to 0.5LT yields 0.2M (0.2N)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains6vials eachcontaining100mlofconcentrate.

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Silver Nitrate 0.25M PrimAg-TvR — V6785

1LT V6785M
2½LT V6785L
Wng H:315-319-410
P:273-302+352-305+351+338

AgNO3 MW169.87
Nominal concentration 0.25M (0.25N) ±0.5% @ 20°C
AgNO3 42.47 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Silver Nitrate 1M PrimAg-TvR — V6752

500ml V6752P
1LT V6752M
2½LT V6752L
Dgr H:314-410
P:273-280c-301+330+331-305+351+338-309+310

AgNO3 MW169.87
Nominal concentration 1M (1N) ±0.5% @ 20°C
AgNO3 169.9 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Arsenite 0.0125M PrimAg-TvR — V6537

1LT V6537M
2½LT V6537L
5LT V6537K
10LT V6537J
Dgr H:350
P:201-308+313

NaAsO2 MW129.91
Nominal concentration 0.0125M (0.025N) ±0.5% @ 20°C
NaAsO2 1.624 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Arsenite 0.025M PrimAg-TvR — V5158

1LT V5158M
2½LT V5158L
5LT V5158K
10LT V5158J
Dgr H:350-412
P:201-273-308+313

NaAsO2 MW129.91
Nominal concentration 0.025M (0.05N) ±0.5% @ 20°C
NaAsO2 3.248 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Arsenite 0.05M PrimAg-TvR — V3780

1LT V3780M
2½LT V3780L
5LT V3780K
10LT V3780J
Dgr H:350-412
P:201-273-308+313

NaAsO2 MW129.91
Nominal concentration 0.05M (0.1N) ±0.5% @ 20°C
NaAsO2 6.496 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Carbonate 0.02M PrimAg-TvR — V5367

1LT V5367M
2½LT V5367L
5LT V5367K
10LT V5367J

Na2CO3 MW105.99
Nominal concentration 0.02M (0.04N) ±0.5% @ 20°C
Na2CO3 2.120 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Carbonate 0.5M PrimAg-TvR — V4500

1LT V4500M
2½LT V4500L
5LT V4500K
10LT V4500J

Na2CO3 MW105.99
Nominal concentration 0.5M (1N) ±0.5% @ 20°C
Na2CO3 53.00 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Chloride 0.01M PrimAg-TvR — V0456

1LT V0456M

NaCl MW 58.44
Nominal concentration 0.01M (0.01N) ±0.5% @ 20°C
NaCl 0.5844 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Chloride 0.02M PrimAg-TvR — V2467

1LT V2467M

NaCl MW58.44
Nominal concentration 0.02M (0.02N) ±0.5% @ 20°C
NaCl 1.169 g/LT
Application: Reagent for volumetric titrimetry
ISO 17034 accredited SI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Sodium Chloride 0.1M PrimAg-TvR — V6453

1LT V6453M

NaCl MW 58.44
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
NaCl 5.844 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Chloride 1M PrimAg-TvR — V3445

1LT V3445M

NaCl MW 58.44
Nominal concentration 1M (1N) ±0.5% @ 20°C
NaCl 58.44 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Dodecyl Sulphate 0.004M PrimAg-TvR — V7104

1LT V7104M
2½LT V7104L

(Sodium Lauryl Sulphate 0.004M)
CH3(CH2)11OSO3.Na MW 288.38
Nominal concentration 0.004M ±0.5% @ 20°C
CH3(CH2)11OSO3.Na 1.154 g/LT
Store at 15-25°C.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable
Product may precipitate at low temperatures. Gentle warming of the container will redissolve the solid and will not a ect the certi ed concentration.

Sodium Dodecyl Sulphate 0.05M PrimAg-TvR — V5306

1LT V5306M
2½LT V5306L

(Sodium Lauryl Sulphate 0.05M)
CH3(CH2)11OSO3.Na MW 288.38
Nominal concentration 0.05M ±0.5% @ 20°C
CH3(CH2)11OSO3.Na 14.42 g/LT
Store at 15-25°C.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable
Product may precipitate at low temperatures. Gentle warming of the container will redissolve the solid and will not a ect the certi ed concentration.

Sodium Dodecyl Sulphate 0.1M PrimAg-TvR — V6425

1LT V6425M
2½LT V6425L

(Sodium Lauryl Sulphate 0.1M)
CH3(CH2)11OSO3.Na MW 288.38
Nominal concentration 0.1M ±0.5% @ 20°C
CH3(CH2)11OSO3.Na 28.84 g/LT
Store at 15-25°C.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable
Product may precipitate at low temperatures. Gentle warming of the container will redissolve the solid and will not a ect the certi ed concentration.

Sodium Hydroxide 0.01M PrimAg-TvR — V5902

1LT V5902M
2½LT V5902L
5LT V5902K
10LT V5902J

NaOH MW 40.00
Nominal concentration 0.01M (0.01N) ±0.5% @ 20°C
NaOH 0.4000 g/LT
Na2CO3 (at time of manufacture) not detected Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydro xid e 0.02 M P rimAg-TvR — V6136

1LT V6136M
2½LT V6136L
5LT V6136K
10LT V6136J

NaOH MW 40.00
Nominal concentration 0.02M (0.02N) ±0.5% @ 20°C
NaOH 0.8000 g/LT
Na2CO3 (at time of manufacture) not detected Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydroxide 0.04M PrimAg-TvR high accuracy — V9404

1LT V9404M
2½LT V9404L

NaOH MW 40.00
Nominal concentration 0.04M (0.04N) ±0.01% @ 20°C
NaOH 1.6000 g/LT
Na2CO3 (at time of manufacture) not detected
To maintain high accuracy protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Sodium Hydroxide 0.05M PrimAg-TvR — V3573

1LT V3573M
2½LT V3573L
5LT V3573K
10LT V3573J

NaOH MW 40.00
Nominal concentration 0.05M (0.05N) ±0.5% @ 20°C
NaOH 2.000 g/LT
Na2CO3 (at time of manufacture) not detected Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO 17034 accredited SI-traceable

Sodium Hydroxide 0.1M PrimAg-TvR — V6701

1LT V6701M
2½LT V6701L
5LT V6701K
10LT V6701J

NaOH MW 40.00
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
NaOH 4.000 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydroxide 0.05M/0.1M PrimAg-TvR
di-concentrate — C7812

6x100ml C7812Q
Dgr H:290-314
P:280c-301+330+331-305+351+338-310

NaOH MW 40.00
1M (1N) nominal concentrate ±0.5% @ 20°C
NaOH 40.00 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.05M (0.05N)
Dilute to 1.0LT yields 0.1M (0.1N)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains 6 vials each containing 100ml of concentrate.

Sodium Hydroxide 0.111M PrimAg-TvR
1 ml = 1 mg lactic acid — V4153

1LT V4153M
2½LT V4153L
5LT V4153K
10LT V4153J

NaOH MW 40.00
Nominal concentration 0.111M (0.111N) ±0.5% @ 20°C
NaOH 4.440 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Determination of acidity of milk products
ISO17034 accreditedSI-traceable

Sodium Hydroxide 0.125M PrimAg-TvR — V5428

1LT V5428M
2½LT V5428L
5LT V5428K
10LT V5428J
Wng H:290-315-319
P:302+352-305+351+338

NaOH MW 40.00
Nominal concentration 0.125M (0.125N) ±0.5% @ 20°C
NaOH 5.000 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydroxide 0.2M PrimAg-TvR — V6384

1LT V6384M
2½LT V6384L
5LT V6384K
10LT V6384J
Wng H:290-315-319
P:302+352-305+351+338

NaOH MW 40.00
Nominal concentration 0.2M (0.2N) ±0.5% @ 20°C
NaOH 8.000 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydroxide 0.2M PrimAg-TvR
high accuracy — V9420

1LT V9420M
2½LT V9420L
Wng H:290-315-319
P:302+352-305+351+338

NaOH MW 40.00
Nominal concentration 0.2M (0.2N) ±0.01% @ 20°C
NaOH 8.0000 g/LT
Na2CO3 (at time of manufacture) not detected
To maintain high accuracy protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydroxide 0.25M PrimAg-TvR — V5217

1LT V5217M
2½LT V5217L
5LT V5217K
Wng H:290-315-319
P:302+352-305+351+338

NaOH MW 40.00
Nominal concentration 0.25M (0.25N) ±0.5% @ 20°C
NaOH 10.00 g/LT
Na2CO3 (at time of manufacture) not detected Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Sodium Hydroxide 0.313M PrimAg-TvR — V6061

1LT V6061M
2½LT V6061L
5LT V6061K
10LT V6061J
Wng H:290-315-319
P:302+352-305+351+338

NaOH MW 40.00
Nominal concentration 0.313M (0.313N) ±0.5% @ 20°C
NaOH 12.52 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydroxide 0.33M PrimAg-TvR — V4537

1LT V4537M
2½LT V4537L
5LT V4537K
10LT V4537J
Wng H:290-315-319
P:302+352-305+351+338

NaOH MW 40.00
Nominal concentration 0.33M (0.33N) ±0.5% @ 20°C
NaOH 13.20 g/LT
Na2CO3 (at time of manufacture) not detected Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydroxide 0.5M PrimAg-TvR — V3858

1LT V3858M
2½LT V3858L
5LT V3858K
10LT V3858J
Dgr H:290-314
P:280c-301+330+331-305+351+338-310

NaOH MW 40.00
Nominal concentration 0.5M (0.5N) ±0.5% @ 20°C
NaOH 20.00 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydroxide 1M PrimAg-TvR — V6713

1LT V6713M
2½LT V6713L
5LT V6713K
10LT V6713J
Dgr H:290-314
P:280c-301+330+331-305+351+338-310

NaOH MW 40.00
Nominal concentration 1M (1N) ±0.5% @ 20°C
NaOH 40.00 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydroxide 0.5M/1M PrimAg-TvR di-concentrate — C7825

6x100ml C7825Q
Dgr H:290-314
P:280c-301+330+331-305+351+338-310

NaOH MW 40.00
10M (10N) nominal concentrate ±0.5% @ 20°C
NaOH 400.0 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.5M (0.5N)
Dilute to 1.0LT yields 1M (1N)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains 6 vials each containing 100ml of concentrate.

Sodium Hydroxide 2M PrimAg-TvR — V5308

1LT V5308M
2½LT V5308L
5LT V5308K
10LT V5308J
Dgr H:290-314
P:280c-301+330+331-305+351+338-310

NaOH MW 40.00
Nominal concentration 2M (2N) ±0.5% @ 20°C
NaOH 80.00 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydroxide 4M PrimAg-TvR — V5357

1LT V5357M
2½LT V5357L
5LT V5357K
10LT V5357J
Dgr H:290-314
P:280c-301+330+331-305+351+338-310

NaOH MW 40.00
Nominal concentration 4M (4N) ±0.5% @ 20°C
NaOH 160.0 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Sodium Hydroxide 5M PrimAg-TvR — V5576

1LT V5576M
2½LT V5576L
5LT V5576K
10LT V5576J
Dgr H:290-314
P:280c-301+330+331-305+351+338-310

NaOH MW 40.00
Nominal concentration 5M (5N) ±0.5% @ 20°C
NaOH 200.0 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydroxide 9M PrimAg-TvR — V4734

1LT V4734M
2½LT V4734L
5LT V4734K
Dgr H:290-314
P:280c-301+330+331-305+351+338-310

NaOH MW 40.00
Nominal concentration 9M (9N) ±0.5% @ 20°C
NaOH 360.0 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Hydroxide 10M PrimAg-TvR — V6326

1LT V6326M
2½LT V6326L
5LT V6326K
Dgr H:290-314
P:280c-301+330+331-305+351+338-310

NaOH MW 40.00
Nominal concentration 10M (10N) ±0.5% @ 20°C
NaOH 400.0 g/LT
Na2CO3 (at time of manufacture) not detected
Protect from atmospheric CO2.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Thiosulphate 0.005M PrimAg-TvR — V2473

1LT V2473M
2½LT V2473L
5LT V2473K

Na2S2O3 MW 158.11
Nominal concentration 0.005M (0.005N) ±0.5% @ 20°C
Na2S2O3 0.7906 g/LT
Stabiliser: Na2CO3 0.2 g/LT
Protect from atmospheric microbial contamination.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Thiosulphate 0.01M PrimAg-TvR — V6360

1LT V6360M
2½LT V6360L
5LT V6360K
10LT V6360J

Na2S2O3 MW 158.11
Nominal concentration 0.01M (0.01N) ±0.5% @ 20°C
Na2S2O3 1.581 g/LT
Stabiliser: Na2CO3 0.2 g/LT
Protect from atmospheric microbial contamination.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Thiosulphate 0.02M PrimAg-TvR — V1375

1LT V1375M
2½LT V1375L
5LT V1375K
10LT V1375J

Na2S2O3 MW 158.11
Nominal concentration 0.02M (0.02N) ±0.5% @ 20°C
Na2S2O3 3.162 g/LT
Stabiliser: Na2CO3 0.2 g/LT
Protect from atmospheric microbial contamination.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Thiosulphate 0.025M PrimAg-TvR — V3682

1LT V3682M
2½LT V3682L
5LT V3682K
10LT V3682J

Na2S2O3 MW 158.11
Nominal concentration 0.025M (0.025N) ±0.5% @ 20°C
Na2S2O3 3.953 g/LT
Stabiliser: Na2CO3 0.2 g/LT
Protect from atmospheric microbial contamination.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Thiosulphate 0.05M PrimAg-TvR — V5677

1LT V5677M
2½LT V5677L
5LT V5677K
10LT V5677J

Na2S2O3 MW 158.11
Nominal concentration 0.05M (0.05N) ±0.5% @ 20°C
Na2S2O3 7.906 g/LT
Stabiliser: Na2CO3 0.2 g/LT
Protect from atmospheric microbial contamination.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Sodium Thiosulphate 0.1M PrimAg-TvR — V7322

1LT V7322M
2½LT V7322L
5LT V7322K
10LT V7322J

Na2S2O3 MW 158.11
Nominal concentration 0.1M (0.1N) ±0.5% @ 20°C
Na2S2O3 15.81 g/LT
Stabiliser: Na2CO3 0.2 g/LT
Protect from atmospheric microbial contamination.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Thiosulphate 0.05M/0.1M/0.2M PrimAg-TvR

tri-concentrate — C8433

6x100ml C8433Q

Na2S2O3 MW 158.11
1M (1N) nominal concentrate ±0.5% @ 20°C
Na2S2O3 158.1 g/LT
Stabiliser: Na2CO3 0.2 g/LT
Protect from atmospheric microbial contamination.
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.05M (0.05N)
Dilute to 1.0LT yields 0.1M (0.1N)
Dilute to 0.5LT yields 0.2M (0.2N)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains 6 vials each containing 100ml of concentrate.

Sodium Thiosulphate 0.2M PrimAg-TvR — V4421

1LT V4421M
2½LT V4421L
5LT V4421K
10LT V4421J

Na2S2O3 MW 158.11
Nominal concentration 0.2M (0.2N) ±0.5% @ 20°C
Na2S2O3 31.62 g/LT
Stabiliser: Na2CO3 0.2 g/LT
Protect from atmospheric microbial contamination.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sodium Thiosulphate 0.125M/0.25M/0.5M PrimAg-TvR

tri-concentrate — C5534

6x100ml C5534Q

Na2S2O3 MW 158.11
2.5M (2.5N) nominal concentrate ±0.5% @ 20°C
Na2S2O3 395.3 g/LT
Stabiliser: Na2CO3 0.2 g/LT
Protect from atmospheric microbial contamination.
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.125M (0.125N)
Dilute to 1.0LT yields 0.25M (0.25N)
Dilute to 0.5LT yields 0.5M (0.5N)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains6vials eachcontaining100mlofconcentrate.

Sodium Thiosulphate 1M PrimAg-TvR — V8024

1LT V8024M
2½LT V8024L
5LT V8024K
10LT V8024J

Na2S2O3 MW158.11
Nominal concentration 1M (1N) ±0.5% @ 20°C
Na2S2O3 158.1 g/LT
Stabiliser: Na2CO3 0.2 g/LT
Protect from atmospheric microbial contamination.
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 0.005M PrimAg-TvR — V8443

1LT V8443M
2½LT V8443L
5LT V8443K
10LT V8443J

H2SO4 MW98.07
Nominal concentration 0.005M (0.01N) ±0.5% @ 20°C
H2SO4 0.4904 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 0.01M PrimAg-TvR — V8554

1LT V8554M
2½LT V8554L
5LT V8554K
10LT V8554J

H2SO4 MW98.07
Nominal concentration 0.01M (0.02N) ±0.5% @ 20°C
H2SO4 0.9807 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Sulphuric Acid 0.05M PrimAg-TvR — V8639

1LT V8639M
2½LT V8639L
5LT V8639K
10LT V8639J

H2SO4 MW98.07
Nominal concentration 0.05M (0.1N) ±0.5% @ 20°C
H2SO4 4.904 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 0.1M PrimAg-TvR — V8641

1LT V8641M
2½LT V8641L
5LT V8641K
10LT V8641J

H2SO4 MW98.07
Nominal concentration 0.1M (0.2N) ±0.5% @ 20°C
H2SO4 9.807 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 0.05M/0.1M/0.2M PrimAg-TvR

tri-concentrate — C8752

6x100ml C8752Q
Wng H:290-315-319
P:302+352-305+351+338

H2SO4 MW 98.07
1M (2N) nominal concentrate ±0.5% @ 20°C
H2SO4 98.07 g/LT
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.05M (0.1N)
Dilute to 1.0LT yields 0.1M (0.2N)
Dilute to 0.5LT yields 0.2M (0.4N)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains6vials eachcontaining100mlofconcentrate.

Sulphuric Acid 0.125M PrimAg-TvR — V7530

1LT V7530M
2½LT V7530L
5LT V7530K
10LT V7530J

H2SO4 MW98.07
Nominal concentration 0.125M (0.25N) ±0.5% @ 20°C
H2SO4 12.26 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 0.1275M PrimAg-TvR — V2386

1LT V2386M
2½LT V2386L
5LT V2386K
10LT V2386J

H2SO4 MW98.07
Nominal concentration 0.1275M (0.255N) ±0.5% @ 20°C
H2SO4 12.50 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 0.25M PrimAg-TvR — V6812

1LT V6812M
2½LT V6812L
5LT V6812K
10LT V6812J

H2SO4 MW 98.07
Nominal concentration 0.25M (0.5N) ±0.5% @ 20°C
H2SO4 24.52 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 0.5M PrimAg-TvR — V5345

1LT V5345M
2½LT V5345L
5LT V5345K
10LT V5345J

H2SO4 MW 98.07
Nominal concentration 0.5M (1N) ±0.5% @ 20°C
H2SO4 49.04 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 0.25M/0.5M/1M PrimAg-TvR

tri-concentrate — C5456

6x100ml C5456Q
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
5M (10N) nominal concentrate ±0.5% @ 20°C
H2SO4 490.4 g/LT
Dilution of the vial contents with distilled water using class A glassware gives the following working strengths:
Dilute to 2.0LT yields 0.25M (0.5N)
Dilute to 1.0LT yields 0.5M (1N)
Dilute to 0.5LT yields 1M (2N)
Application: Concentrate for volumetric titrimetry
ISO 17034accredited SI-traceable
Pack contains 6 vials each containing 100ml of concentrate.

Sulphuric Acid 1M PrimAg-TvR — V8700

1LT V8700M
2½LT V8700L
5LT V8700K
10LT V8700J
Wng H:290-315-319
P:302+352-305+351+338

H2SO4 MW 98.07
Nominal concentration 1M (2N) ±0.5% @ 20°C
H2SO4 98.07 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Sulphuric Acid 2M PrimAg-TvR *V8115*

1LT V8115M
2½LT V8115L
5LT V8115K
10LT V8115J
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
Nominal concentration 2M (4N) ±0.5% @ 20°C
H2SO4 196.1 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 2.5M PrimAg-TvR *V8236*

1LT V8236M
2½LT V8236L
5LT V8236K
10LT V8236J
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
Nominal concentration 2.5M (5N) ±0.5% @ 20°C
H2SO4 245.2 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 3M PrimAg-TvR *V7455*

1LT V7455M
2½LT V7455L
5LT V7455K
10LT V7455J
Dgr H:290 -314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
Nominal concentration 3M (6N) ±0.5% @ 20°C
H2SO4 294.2 g/LT
Application: Reagent for volumetric titrimetry

Sulphuric Acid 4M PrimAg-TvR *V8665*

1LT V8665M
2½LT V8665L
5LT V8665K
10LT V8665J
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
Nominal concentration 4M (8N) ±0.5% @ 20°C
H2SO4 392.3 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 5M PrimAg-TvR *V6546*

1LT V6546M
2½LT V6546L
5LT V6546K
10LT V6546J
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
Nominal concentration 5M (10N) ±0.5% @ 20°C
H2SO4 490.4 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 12M PrimAg-TvR *V8912*

1LT V8912M
2½LT V8912L
5LT V8912K
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
Nominal concentration 12M (24N) ±0.5% @ 20°C
H2SO4 1177 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Zinc Acetate 0.05M PrimAg-TvR *V6127*

1LT V6127M
2½LT V6127L
5LT V6127K
10LT V6127J

(CH3COO)2Zn MW183.47
Nominal concentration 0.05M (0.1N) ±0.5% @ 20°C
(CH3COO)2Zn 9.174 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

ROMIL PrimAg®-TvR Traceable Volumetric Reagents Specifications

Sulphuric Acid 2M PrimAg-TvR — V8115

1LT V8115M
2½LT V8115L
5LT V8115K
10LT V8115J
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
Nominal concentration 2M (4N) ±0.5% @ 20°C
H2SO4 196.1 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 2.5M PrimAg-TvR — V8236

1LT V8236M
2½LT V8236L
5LT V8236K
10LT V8236J
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
Nominal concentration 2.5M (5N) ±0.5% @ 20°C
H2SO4 245.2 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 3M PrimAg-TvR — V7455

1LT V7455M
2½LT V7455L
5LT V7455K
10LT V7455J
Dgr H:290 -314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
Nominal concentration 3M (6N) ±0.5% @ 20°C
H2SO4 294.2 g/LT
Application: Reagent for volumetric titrimetry

Sulphuric Acid 4M PrimAg-TvR — V8665

1LT V8665M
2½LT V8665L
5LT V8665K
10LT V8665J
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
Nominal concentration 4M (8N) ±0.5% @ 20°C
H2SO4 392.3 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 5M PrimAg-TvR — V6546

1LT V6546M
2½LT V6546L
5LT V6546K
10LT V6546J
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
Nominal concentration 5M (10N) ±0.5% @ 20°C
H2SO4 490.4 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Sulphuric Acid 12M PrimAg-TvR — V8912

1LT V8912M
2½LT V8912L
5LT V8912K
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW 98.07
Nominal concentration 12M (24N) ±0.5% @ 20°C
H2SO4 1177 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

Zinc Acetate 0.05M PrimAg-TvR — V6127

1LT V6127M
2½LT V6127L
5LT V6127K
10LT V6127J

(CH3COO)2Zn MW183.47
Nominal concentration 0.05M (0.1N) ±0.5% @ 20°C
(CH3COO)2Zn 9.174 g/LT
Application: Reagent for volumetric titrimetry
ISO17034 accreditedSI-traceable

ROMIL Technical Grade Solvents and Acids Specifications

Acetic Acid glacial (see Acetic Acid)

Acetic Acid tech — RS014

2½LT RS014L
25LT RS014G
Dgr H:226-314
P:280c-301+330+331-305+351+338-307+310

(Acetic Acid glacial)

CH3COOH MW60.05 FP 16.7°C BP 117.9°C d 1.05 CAS [64-19-7] Assay >99% Water <0.5%

Acetone tech — RS031

2½LT RS031L
5LT RS031K
10LT RS031J
25LT RS031G
Dgr H:225-319-336-EUH066
P:210-233-305+351+338

(Propanone)

(CH3)2COMW 58.08 BP 56.1°C d 0.79 CAS [67-64-1] Assay >99% Water <0.8%

Acetonitrile tech — RS046

2½LT RS046L
25LT RS046G
Dgr H:225-302+312+332-319
P:210-240-302+352-305+351+338-403+233

(Methyl Cyanide)

CH3CNMW 41.05 BP 81.6°C d 0.78 CAS [75-05-8]
Assay >99% Water <0.3%

iso-Amyl Alcohol tech — RS062

2½LT RS062L
25LT RS062G
Wng H:226-332-335-EUH066
P:210-304+340

(iso-Pentanol)

(CH3)CH(CH2)2OH MW 88.15 d 0.81
Water <0.8%
Assay (3- and 2-methyl isomers) >97%

n-Butanol (see Butan-1-ol)

2-Butanone (see Methyl Ethyl Ketone)

n-Butyl Alcohol (see Butan-1-ol)

n-Butyl Chloride (see 1-Chlorobutane)

Butan-1-ol tech — RS083

2½LT RS083L 25LT RS083G
Dgr H:226-302-315-318-335-336
P:210-280f-302+352-304+340-305+351+338-313

(n-Butanol, n-Butyl Alcohol)

CH3(CH2)3OHMW 74.12 BP 117.7°C d 0.81 CAS [71-36-3]
Assay >99% Water <0.5%

1-Chlorobutane tech — RS118

2½LT RS118L
25LT RS118G
Dgr H:225
P:210

(n-Butyl Chloride)

CH3(CH2)3Cl MW 92.57 BP 78.4°C d 0.88 CAS [109-69-3] Assay >98% Water <0.5%

Chloroform tech — RS135

2½LT RS135L
Dgr H:351-361d-331-302-372-319-315
P:261v-280f-304+340-305+351+338-308+313

(Trichloromethane)

CHCl3 MW119.38 BP 61.2°C d 1.48 CAS [67-66-3]
Assay >98%* Water <0.2%
*ex stabiliser
Stabiliser: Ethanol ca. 1% w/w
Stabiliser should only be removed immediately before use by adsorption onto activated alumina.

Cyclohexane tech — RS156

2½LT RS156L 25LT RS156G
Dgr H:225-304-315-336-410
P:210-233-240-273-301+310-302+352-331-403+235

C6H12 MW 84.16 FP6.5°CBP 80.7°C d 0.78 CAS [110-82-7]
Assay >99% Water <0.2%

ROMIL Technical Grade Solvents and Acids Specifications

Dichloromethane tech — RS202

2½LT RS202L
25LT RS202G
Wng H:351
P:281-308+313

(Methylene Dichloride)
CH2Cl2MW 84.93BP 39.6°C d 1.33 CAS [75-09-2]
Assay >99%* Water <0.2%
*ex stabiliser
Stabiliser: Amylene ca. 50 ppm

Diethyl Ether tech — RS220

2½LT RS220L
25LT RS220G
Dgr H:224-302-336-EUH019-EUH066
P:210-240-403+235

(C2H5)2OMW 74.12 BP34.4°C d 0.71 CAS [60-29-7]
Assay >99%* Water <0.2%
*ex stabiliser
Stabiliser: Butylated hydroxytoluene (BHT) ca. 5 ppm

Dimethylformamide tech — RS253

2½LT RS253L
25LT RS253G
Dgr H:360D-226-312+332-319
P:201-210-302+352-305+351+338-308+313

HCON(CH3)2 MW 73.09BP153.0°Cd0.95 CAS [68-12-2]
Assay >99% Water <0.3%

1,4-Dioxan tech — RS297

2½LT RS297L
25LT RS297G
Dgr H:225-350-319-335-EUH019-EUH066
P:210-281-305+351+338-308+313

C4H8O2MW 88.11 FP11.8°C BP 101.3°C d 1.03 CAS [123-91-1]
Assay >99% Water <0.2%
Unstabilised

Di-iso-propyl Ether tech — RS236

2½LT RS236L
25LT RS236G
Dgr H:225-336-EUH019-EUH066
P:210-240-403+235

[(CH3)2CH]2O MW 102.18BP68.5°Cd0.73 CAS [108-20-3]
Assay >98%* Water <0.5%
*ex stabiliser
Stabiliser: Butylated hydroxytoluene (BHT) ca. 5 ppm

Ethanol absolute tech

2½LT RS314L
25LT RS314G
Dgr H:225
P:210-233-240-403+235

(Ethyl Alcohol)
C2H5OHMW 46.07 BP 78.3°C d 0.79 CAS [64-17-5]
Assay >99% Water <0.8%

n-Heptane 95% tech — RS367

2½LT RS367L
25LT RS367G
Dgr H:225-304-315-336-410
P:210-273-301+310-331-302+352-304+340-403+235

CH3(CH2)5CH3 MW 100.21BP94-98°C d 0.68 CAS [142-82-5]
Water <0.2%
Assay (n-isomer) ca. 95%
Assay (all isomers) >99%

Hexane tech — RS390

2½LT RS390L
25LT RS390G
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

C6H14 BP 65-70°C d 0.66 CAS [73513-42-5]
Water <0.2%
Comprises ca. 50% n-isomer, the remainder being predominantly other isomers of hexane.

n-Hexane 95% tech — RS389

2½LT RS389L
25LT RS389G
Dgr H:225-304-361f-373-315-336-411
P:210-240-273-301+310-331-302+352-403+235

CH3(CH2)4CH3 MW 86.18BP67-70°C d 0.66 CAS [110-54-3]
Water <0.2%
Assay (n-isomer) ca. 95%
Assay (all isomers) >99%

info@rikiglobal.com www.rikiglobal.com +91-9908246695 +91-40-35172288/89

ROMIL Technical Grade Solvents and Acids Specifications

Hydrochloric Acid 1.18 tech

RA396

2½LT RA396L
25LT RA396G
Dgr H:290-314-335
P:280c-301+330+331-305+351+338-309+310

HClMW 36.46d1.18CAS[7647-01-0]
Assay ca. 36%

Methyl Alcohol (see Methanol)

Methyl Cyanide (see Acetonitrile)

Methylene Dichloride (see Dichloromethane)

Methanol tech

RS409

2½LT RS409L
25LT RS409G
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-403+235

(Methyl Alcohol)
CH3OHMW 32.04 BP 64.5°C d 0.79 CAS [67-56-1]
Assay >99% Water <0.5%

Methyl Ethyl Ketone tech

RS493

2½LT RS493L
25LT RS493G
Dgr H:225-319-336-EUH066
P:210-305+351+338-403+233

(2-Butanone)
CH3CH2COCH3 MW 72.11 BP 79.6°C d 0.80 CAS [78-93-3] Assay >99% Water <0.3%

Nitric Acid 1.42 tech

RA566

2½LT RA566L
Dgr H:272-290-331-314-EUH071
P:260c-280c-301+330+331-305+351+338-309+310

HNO3 MW63.01d1.42CAS[7697-37-2]
Assay ca. 69%
Store in dark.
Concentrated Nitric Acid can decompose to nitrogen oxides (NOx) through action of heat or light resulting in a yellow colouration. However, this does not a ect the performance of the acid with respect to trace metals or oxidising power. Storage in a cool, dark place is recommended.

iso-Octane (see 2,2,4-Trimethylpentane)

iso-Pentanol (see iso-Amyl Alcohol)

Perchloroethylene (see Tetrachloroethylene)

Petroleum Distillate (see Petroleum Ether)

Petroleum Spirit (see Petroleum Ether)

iso-Propanol (see Propan-2-ol)

Propanone (see Acetone)

iso-Propyl Alcohol (see Propan-2-ol)

Petroleum Ether 40-60°C tech

RS601

2½LT RS601L
25LT RS601G
Dgr H:225-304-336-411-EUH066
P:210-233-243-273-280-301+310-303+361+353-304+340-331-403+235

(Petroleum Distillate, Petroleum Spirit)
BP 40-60°C d0.64 CAS[8032-32-4]
Water <0.2%

Propan-2-ol tech

RS625

2½LT RS625L
25LT RS625G
Dgr H:225-319-336
P:210-233-305+351+338

(iso-Propanol, iso-Propyl Alcohol)
(CH3)2CHOH MW 60.10BP82.2°C d 0.78 CAS [67-63-0]
Assay >99% Water <0.5%

ROMIL Technical Grade Solvents and Acids Specifications

Sulphuric Acid 1.84 tech

RA691

2½LT RA691L
Dgr H:290-314
P:280c-301+330+331-305+351+338-309+310

H2SO4 MW98.07d1.84CAS[7664-93-9]
Assay 95-98%

Turpentine substitute (see White Spirit)

Tetrachloroethylene tech

RS702

2½LT RS702L
25LT RS702G
Wng H:315-317-319-336-351-411
P:273-281-302+352-305+351+338-308+313

(Perchloroethylene)
CCl2CCl2MW165.83 BP 121.1°C d 1.62 CAS [127-18-4]
Assay >99% Water <0.2%
Unstabilised

Tetrahydrofuran tech

RS718

2½LT RS718L
25LT RS718G
Dgr H:225-319-335-351-EUH019
P:210-240-305+351+338-308+313-403+233

CH2(CH2)2CH2OMW 72.11BP66.0°C d 0.89 CAS [109-99-9]
Assay >99%* Water <0.3%
*ex stabiliser
Stabiliser: Butylated hydroxytoluene (BHT) ca. 250 ppm

Toluene tech

RS771

2½LT RS771L
25LT RS771G
Dgr H:225-304-315-336-361d-373
P:210-240-301+310-331-302+352-403+235

C6H5CH3MW92.14BP 110.6°C d 0.87 CAS [108-88-3]
Assay >99% Water <0.2%

2,2,4-Trimethylpentane tech

RS901

2½LT RS901L
25LT RS901G
Dgr H:225-304-315-336-410
P:210-233-240-273-301+310-331-302+352-304+340-403+235

(iso-Octane)
(CH3)3CCH2CH(CH3)2 MW 114.23 BP 99.2°C d 0.69 CAS [540-84-1] Assay >98% Water <0.2%

White Spirit tech

RS864

2½LT RS864L
25LT RS864G
Dgr H:226-302+312+332-304-315-319-334-411
P:261v-273-280f-301+310-331-305+351+338

(Turpentine substitute, Stoddard solvent)
BP150-200°C d0.77 CAS[8052-41-3]
Water <0.2%
Comprises a re ned mixture of mainly C9-C12 hydrocarbons being n-alkanes, iso-alkanes, cyclics and aromatics.

Xylene mixed isomers tech

RS982

2½LT RS982L
25LT RS982G
Wng H:226-312+332-315 P:210-302+352-304+340

C6H4(CH3)2 MW106.17BP138-142°Cd0.86 CAS [1330-20-7]
Water <0.2%
Comprises 3 isomers and ethylbenzene
Assay (total C8H10 isomers) >97%

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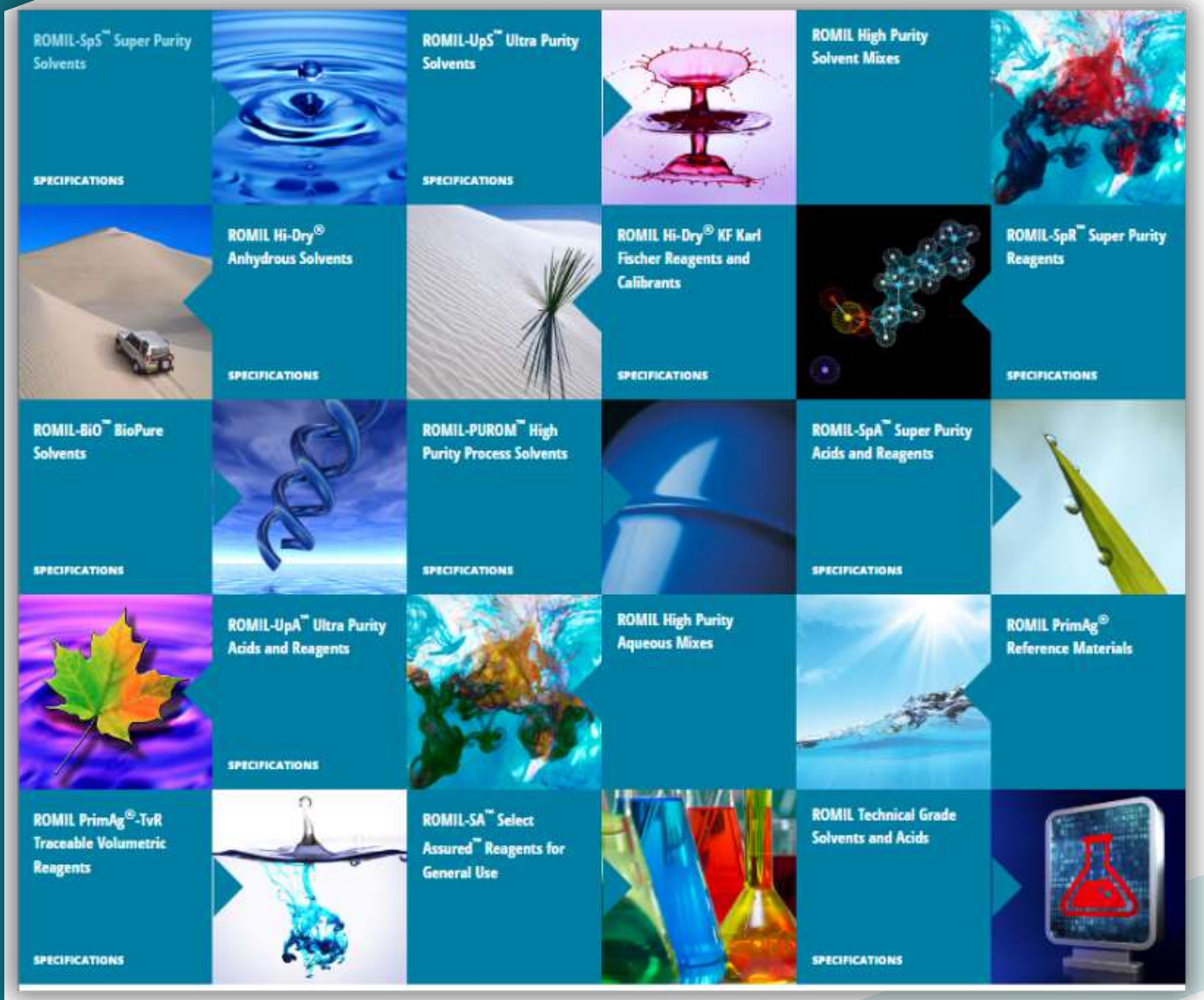

RIKI GLOBAL

Plot No 39 1st Floor Lavanya Aracade Jayabheri Enclave
Gachibowli Hyderabad-500032.Telangana
Mob : +91 99082 46685 Tel : 040 - 35172288/89

info@rikiglobal.com www.rikiglobal.com +91-9908246695 +91-40-35172288/89