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**ROMMA**  
PURE CHEMISTRY

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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

(Acetic Acid glacial)

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



CH<sub>3</sub>COOH 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: HPLC as buffer reagent, LC-MS as additive

### Ammonia solution SpR

HB059

(Ammonium Hydroxide solution)

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



NH<sub>3</sub> 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 buffer reagent, LC-MS as  
additive Elemental impurities specified at time of manufacture.

### Ammonium Acetate SpR

HR079

100g HR079S  
500g HR079P

CH<sub>3</sub>COONH<sub>4</sub> MW 77.08 CAS [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: HPLC as buffer reagent, LC-MS as additive

### Ammonium Carbonate SpR

HR143

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



NH<sub>4</sub>HCO<sub>3</sub>+NH<sub>2</sub>COONH<sub>4</sub> MW 157.13 d 0.90 CAS [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 buffer  
reagent

### Ammonium Formate SpR

HR305

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



HCOONH<sub>4</sub> MW 63.06 d 1.26 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 buffer reagent, LC-MS as additive





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### Ammonium di-Hydrogen Phosphate SpR

HR192

100g HR192S  
500g HR192P

**(Ammonium Phosphate monobasic)**

NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub> 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 buffer reagent

### Butane-1-sulphonic Acid sodium salt SpR

IP204

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

**(Sodium n-Butyl-1-sulphonate)**

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>SO<sub>3</sub>.Na MW 160.17 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)**

CH<sub>3</sub>(CH<sub>2</sub>)<sub>9</sub>SO<sub>3</sub>.Na MW 244.33 CAS [13419-61-9] Assay >98% UV: 200nm

>96% UV measured as 0.005M solution in water Application: HPLC as ion-pair reagent for basic compounds

### Diuoroacetic Acid SpR

CHF<sub>2</sub>COOH MW 96.03 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-pair reagent, LC-MS additive

P:280c-301+330+331-305+351+338-310



### Dioctyl Sulphosuccinate sodium salt SpR

IP226

25g IP226V  
100g IP226S  
1KG

**(Sodium Dioctylsulphosuccinate)**

C<sub>20</sub>H<sub>37</sub>O<sub>7</sub>S.Na MW 444.56 CAS [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

Dgr H:318  
P:280-305+351+338



### Dodecane-1-sulphonic Acid sodium salt SpR

IP212

25g IP212V  
100g IP212S  
1KG IP212M

**(Sodium n-Dodecyl-1-sulphonate)**

CH<sub>3</sub>(CH<sub>2</sub>)<sub>11</sub>SO<sub>3</sub>.Na MW 272.38 CAS [2386-53-0] Assay >98% UV:

200nm >90% UV measured as 0.0005M solution in water

Application: HPLC as ion-pair reagent for basic compounds

### Dodecyltrimethylammonium Bromide SpR

IP412

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

CH<sub>3</sub>(CH<sub>2</sub>)<sub>11</sub>N(CH<sub>3</sub>)<sub>3</sub>.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





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### 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 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)**  
CF<sub>3</sub>(CF<sub>2</sub>)<sub>2</sub>COOH 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)**  
CH<sub>3</sub>(CH<sub>2</sub>)<sub>6</sub>SO<sub>3</sub>.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)**  
CH<sub>3</sub>(CH<sub>2</sub>)<sub>15</sub>N(CH<sub>3</sub>)<sub>3</sub>.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)**  
CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>SO<sub>3</sub>.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)**  
CH<sub>3</sub>(CH<sub>2</sub>)<sub>7</sub>SO<sub>3</sub>.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)







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### Pentane-1-sulphonic Acid sodium salt SpR

IP205

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

**(Sodium n-Pentyl-1-sulphonate)**

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>SO<sub>3</sub>.Na MW174.21 CAS [22767-49-3]

Assay >98%

UV: 200nm >96%

UV measured as 0.005M solution in water

Application: HPLC as ion-pair reagent for 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



HClO<sub>4</sub> MW 100.46 d1.54 CAS [7601-90-3]

Assay ca. 60% UV: 254nm >98% UV

measured as 1M solution in water

Application: HPLC as buffer reagent

### Phosphoric Acid 85% SpR

HA614

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



**(Orthophosphoric Acid)**

H<sub>3</sub>PO<sub>4</sub> MW98.00 d 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 HR739P

**(Potassium Phosphate monobasic)**

KH<sub>2</sub>PO<sub>4</sub> MW136.08 CAS [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 buffer reagent

### di-Potassium Hydrogen Phosphate 3H<sub>2</sub>O

SpR

HR471

100g HR471S  
500g HR471P

**(Potassium Phosphate dibasic)**

K<sub>2</sub>HPO<sub>4</sub>·3H<sub>2</sub>O MW 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

Absorbs moisture from air. Replace cap promptly after use.

Application: HPLC as buffer 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](#))





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## 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:228-302-311-305-412  
P:210h-273-280e-302+352-305+351+338-313  
**(Sodium Lauryl Sulphate)**  
CH<sub>3</sub>(CH<sub>2</sub>)<sub>11</sub>OSO<sub>3</sub>.Na MW 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 1H<sub>2</sub>O SpR

HR343

100g HR343S  
500g HR343P  
Dgr H:271-302  
P:210-221  
NaClO<sub>4</sub>.H<sub>2</sub>O MW 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)**  
CCl<sub>2</sub>CCl<sub>2</sub> MW 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-EUJ019  
P:210-240-305+351+338-308+313-403+233  
CH<sub>2</sub>(CH<sub>2</sub>)<sub>2</sub>CH<sub>2</sub>OMW 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-EUJ019  
P:210-240-305+351+338-308+313-403+233  
CH<sub>2</sub>(CH<sub>2</sub>)<sub>2</sub>CH<sub>2</sub>O MW 72.11 BP 66°C d 0.89 CAS [109-99-9]  
Assay >99.9% Water <0.0025% Residue <0.0001%  
Unstabilised  
Contains molecular sieve.



### Tetrahydrofuran Hi-Dry

stabilised with BHT

D4719

100ml D4719S  
500ml D4719P  
1LT D4719M  
2½LT D4719L  
Dgr H:225-319-335-351-EUJ019  
P:210-240-305+351+338-308+313-403+233  
CH<sub>2</sub>(CH<sub>2</sub>)<sub>2</sub>CH<sub>2</sub>O 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  
C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub> MW 92.14 BP110.6°C d 0.87 CAS [108-88-3]  
Assay >99.9% Water <0.0010% Residue <0.0001%





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### 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.

