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ROMMA
PURE CHEMISTRY

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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 319H:302-
P:305+351+33
8

C₆H₅COOH MW122.12CAS [65-85-0]
Water <0.2% Application: Buffer 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°C BP210.5°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 conjunction with Karl Fischer electrolyte C (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 refined 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 conjunction with Karl Fischer electrolyte C (ROMIL K3146) 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





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Karl Fischer electrolyte AP Hi-Dry KF

K3087

500ml K3087P
Dgr H:225-301+311+331-314-351-3600-370-372
P:201-210-280-304+340-305+351+338-308+313-403+235

Use in conjunction with Karl Fischer electrolyte C (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+331-318-3600-370-373
P:201-210-260-280-301+310-305+351+338

Protect from 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

Use in conjunction with suitable Karl Fischer electrolyte A* 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:312-314-3600F
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:314-332-3600-401
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:314-332-3600-401
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:314-332-3600-401
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





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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 oil 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 oil

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



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

pyridine-free reagents for water determination



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Karl Fischer solvent VSO Hi-Dry KF

for oils

K6524

1LT K6524M
Dgr H:225-301+311+331-314-360-370
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 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+312-331-314-351-360-370-372
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 certified 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-traceable through NIST certified reference material
Supplied with Hi-Dry septum seal cap.



Karl Fischer calibrant PC Hi-Dry KF

H₂O 5.55% (potassium citrate)

K7755

10g K7755X

K3C6H5O7.2H₂O 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 material for KF titration with oven

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 KF titration



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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-traceable through NIST certified reference material Supplied with Hi-Dry septum seal cap.*

Karl Fischer calibrant WS1 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 through NIST certified reference material
Supplied in pack containing 10x5ml sealed glass ampoules.*

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-traceable through NIST certified reference material Supplied with Hi-Dry septum seal 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 certified 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: Reference material for KF titration

*SI-traceable through NIST certified 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: Reference material for KF titration

*SI-traceable through NIST certified 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
(Methyl Alcohol)
Dgr H:225-301+311+331-370
P:210-280f-302+352-309+310-
403+235



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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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)COOH MW138.12 CAS[69-72-7]
Water <0.2% Protect from atmospheric moisture. Replace cap tightly immediately after use. Application: Buffer 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

