

Растворители, реагенты LC-MS и синтеза олигонуклеотидов

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SOLVENTS AND REAGENTS FOR LC-MS



LC-MS and UHPLC-MS combine the advantages of chromatographic separation with those of mass spectrometry. Solvents used in LC-MS have the ideal specifications to obtain reliable, accurate results.



2-Propanol, LC-MS

- Synonyms: Isopropyl alcohol, Isopropanol, iso-Propanol, Dimethylcarbinol, 2-Hydroxypropane
- C_3H_8O
- $M = 60,10 \text{ g/mol}$
- CAS [67-63-0]
- EINECS-No.: 200-661-7
- Density: $0,785 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: $-89,5 \text{ °C}$
- Boiling point: $82,4 \text{ °C}$
- Flash pt. 12 °C
- Ignition temp.: 425 °C
- Vapour pressure: (20 °C) 43 hPa
- Dielectric const.: (25 °C) 18,3
- LD 50 (oral, rat): 5045 mg/kg
- EC-Index-No.: 603-117-00-0
- ADR: 3 F1 II UN 1219
- IMDG: 3 II UN 1219
- IATA/ICAO: 3 II UN 1219
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - H336
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P405 - P501a
- Tariff number: 2905 12 00 00
- Applications: solvents, in antifreeze compositions, cosmetics.

SPECIFICATIONS

assay (G.C.): min. 99,9 %

identity (IR-spectrum): passes test
density (20°/4°): 0,784 - 0,786
acidity: max. 0,0001 meq/g
aluminium (Al): max. 10 ppb
calcium (Ca): max. 10 ppb
copper (Cu): max. 5 ppb
iron (Fe): max. 10 ppb
lead (Pb): max. 5 ppb
magnesium (Mg): max. 10 ppb
manganese (Mn): max. 5 ppb
nickel (Ni): max. 5 ppb
potassium (K): max. 5 ppb
silver (Ag): max. 5 ppb
sodium (Na): max. 50 ppb
zinc (Zn): max. 10 ppb
residue on evaporation: max. 0,0005 %
water (K.F.): max. 0,05 %
suitability for use in LC-MS: passes test

wavelength:: T(%) A (AU)
210 nm: 20 % 0,699 AU
215 nm: 50 % 0,301 AU
240 nm: 90 % 0,046 AU

maximum peak absorbance:: max. 0,005 AU

Microfiltered through membranes of pore diameter 0,22 µm



Acetic acid glacial, eluent additive for LC-MS

- Synonyms: Methane carboxylic acid, Methylformic acid
- CH3COOH
- M = 60,05 g/mol
- CAS [64-19-7]
- EINECS-No.: 200-580-7
- Density: 1,05 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 17 °C
- Boiling point: 117 °C
- Flash pt. 39 °C
- Ignition temp.: 485 °C
- Vapour pressure: (20 °C) 15,4 hPa
- Refraction index: (20 °C) 1,37
- LD 50 (oral, rat): 3310 mg/kg
- EC-Index-No.: 607-002-00-6
- ADR: 8 CF1 II UN 2789
- IMDG: 8 II UN 2789
- IATA/ICAO: 8 II UN 2789
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P310 - P370+P378 - P405 - P501a
- Tariff number: 2915 21 00 10
- Applications: laboratory reagent, synthesis of organic products, in the rubber industry, in food industry.

SPECIFICATIONS

assay (acidimetric): min. 99,9 %

identity (IR-spectrum): passes test
aluminium (Al): max. 0,05 ppm
barium (Ba): max. 0,05 ppm
cadmium (Cd): max. 0,05 ppm
calcium (Ca): max. 0,5 ppm
chromium (Cr): max. 0,05 ppm
cobalt (Co): max. 0,05 ppm
copper (Cu): max. 0,05 ppm
iron (Fe): max. 0,2 ppm
lead (Pb): max. 0,05 ppm
lithium (Li): max. 0,05 ppm
magnesium (Mg): max. 0,1 ppm
manganese (Mn): max. 0,05 ppm
molybdenum (Mo): max. 0,05 ppm
nickel (Ni): max. 0,05 ppm
potassium (K): max. 0,1 ppm
silver (Ag): max. 0,05 ppm
sodium (Na): max. 0,5 ppm
strontium (Sr) : max. 0,05 ppm
thallium (Tl): max. 0,05 ppm
zinc (Zn): max. 0,05 ppm

suitability for use in LC-MS: passes test



Acetonitrile with 0,1% formic acid, LC-MS

- Density: 0,78 g/cm³
- Flash pt. 2 °C
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993
- IATA/ICAO: 3 II UN 1993
- GHS-signal word: Danger
- GHS-H sentences: H225 - H312 - H332 - H319
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P403+P235 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, chromatography.

SPECIFICATIONS

formic acid content (v/v): 0,093 - 0,107 %
calcium (Ca): max. 0,5 ppm
magnesium (Mg): max. 0,5 ppm
potassium (K): max. 0,5 ppm
sodium (Na): max. 2 ppm
suitability for use in LC-MS: passes test

maximum peak absorbance:: 0,05 AU

wavelength:: T(%) A (AU)
210 nm: 5 % 1,301 AU
230 nm: 15 % 0,824 AU
254 nm: 90 % 0,046 AU

Microfiltered through membranes of pore diameter 0,22 µm



Acetonitrile with 0,1% trifluoroacetic acid, LC-MS

- Flash pt. 6 °C
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993
- IATA/ICAO: 3 II UN 1993
- GHS-signal word: Danger
- GHS-H sentences: H225 - H312 - H332 - H319
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P403+P235 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, chromatography.

SPECIFICATIONS

trifluoroacetic acid content (v/v): 0,093 - 0,107 %

calcium (Ca): max. 0,5 ppm

magnesium (Mg): max. 0,5 ppm

potassium (K): max. 0,5 ppm

sodium (Na): max. 2 ppm

suitability for use in LC-MS: passes test

wavelength:: T(%) A (AU)

210 nm: 30 % 0,523 AU

230 nm: 50 % 0,301 AU

254 nm: 90 % 0,046 AU

Microfiltered through membranes of pore diameter 0,22 µm



Acetonitrile, LC-MS

- Synonyms: Methyl cyanide, Cyanomethane
- CH₃CN
- M = 41,05 g/mol
- CAS [75-05-8]
- EINECS-No.: 200-835-2
- Density: 0,786 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -45,7 °C
- Boiling point: 81,6 °C
- Flash pt. 2 °C
- Ignition temp.: 524 °C
- Vapour pressure: (20 °C) 97 hPa
- Refraction index: (n 20 °C) 1,3442
- Dielectric const.: (20 °C) 37,5
- LD 50 (oral, rat): 2730 - 3800 mg/kg
- EC-Index-No.: 608-001-00-3
- ADR: 3 F1 II UN 1648
- IMDG: 3 II UN 1648
- IATA/ICAO: 3 II UN 1648
- GHS-signal word: Danger
- GHS-H sentences: H225 - H302+H312+H332 - H319
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P403+P235 - P501a
- Tariff number: 2926 90 70 22
- Applications: chromatography, synthesis of organic products, solvents.

SPECIFICATIONS

assay (G.C.): min. 99,9 %

identity (IR-spectrum): passes test

density (20°/4°): 0,779 - 0,783

acidity: max. 0,0002 meq/g
aluminium (Al): max. 25 ppb
barium (Ba): max. 5 ppb
cadmium (Cd): max. 5 ppb
calcium (Ca): max. 25 ppb
chromium (Cr): max. 5 ppb
cobalt (Co): max. 5 ppb
copper (Cu): max. 5 ppb
iron (Fe): max. 5 ppb
lead (Pb): max. 5 ppb
magnesium (Mg): max. 10 ppb
manganese (Mn): max. 5 ppb
nickel (Ni): max. 5 ppb
potassium (K): max. 10 ppb
silver (Ag): max. 5 ppb
sodium (Na): max. 50 ppb
tin (Sn): max. 5 ppb
zinc (Zn): max. 5 ppb
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,01 %
suitability for use in LC-MS: passes test

wavelength:: T(%) A (AU)

195 nm: 80 % 0,097 AU

200 nm: 95 % 0,022 AU

210 nm: 97 % 0,013 AU

220 nm: 98 % 0,009 AU

230 nm: 99 % 0,004 AU

maximum background absorbance:: 0,012 AU

maximum peak absorbance:: 0,001 AU

maximum peak absorbance:: 0,0005 AU

Microfiltered through membranes of pore diameter 0,1 µm



Acetonitrile, UHPLC-MS

- Synonyms: Methyl cyanide, Cyanomethane
- CH₃CN
- M = 41,05 g/mol
- CAS [75-05-8]
- EINECS-No.: 200-835-2
- Density: 0,786 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -45,7 °C
- Boiling point: 81,6 °C
- Flash pt. 2 °C
- Ignition temp.: 524 °C
- Vapour pressure: (20 °C) 97 hPa
- Refraction index: (n 20 °C) 1,3442
- Dielectric const.: (20 °C) 37,5
- LD 50 (oral, rat): 2730 - 3800 mg/kg
- EC-Index-No.: 608-001-00-3
- ADR: 3 F1 II UN 1648
- IMDG: 3 II UN 1648
- IATA/ICAO: 3 II UN 1648
- GHS-signal word: Danger

- GHS-H sentences: H225 - H302+H312+H332 - H319
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P403+P235 - P501a
- Tariff number: 2926 90 70 22
- Applications: chromatography, synthesis of organic products, solvents.

SPECIFICATIONS

assay (G.C.): min. 99,9 %
 identity (IR-spectrum): passes test
 density (20°/4°): 0,779 - 0,783
 acidity: max. 0,0002 meq/g
 aluminium (Al): max. 25 ppb
 barium (Ba): max. 5 ppb
 cadmium (Cd): max. 5 ppb
 calcium (Ca): max. 25 ppb
 chromium (Cr): max. 5 ppb
 cobalt (Co): max. 5 ppb
 copper (Cu): max. 5 ppb
 iron (Fe): max. 5 ppb
 lead (Pb): max. 5 ppb
 magnesium (Mg): max. 10 ppb
 manganese (Mn): max. 5 ppb
 nickel (Ni): max. 5 ppb
 potassium (K): max. 10 ppb
 silver (Ag): max. 5 ppb
 sodium (Na): max. 50 ppb
 tin (Sn): max. 5 ppb
 zinc (Zn): max. 5 ppb
 residue on evaporation: max. 0,0001 %
 water (K.F.): max. 0,01 %

suitability for use in UHPLC-MS: passes test

wavelength:: T(%) A (AU)

195 nm: 80 % 0,097 AU
 200 nm: 95 % 0,022 AU
 210 nm: 97 % 0,013 AU
 220 nm: 98 % 0,009 AU
 230 nm: 99 % 0,004 AU

maximum background absorbance:: 0,012 AU
 maximum peak absorbance:: 0,001 AU

maximum peak absorbance:: 0,0002 AU

UHPLC-MS test ESI+: max. 5 ppb Reserpin
 UHPLC-MS test ESI-: max. 20 ppb Digoxin

Microfiltered through membranes of pore diameter 0,1 µm



Ammonia, solution 25%, eluent additive for LC-MS

- Synonyms: Ammonia water, Ammonium hydroxide solution
- NH₃
- M = 17,03 g/mol
- CAS [1336-21-6]
- EINECS-No.: 215-647-6

- Density: 0,90 g/cm³
- Melting point: -57,5 °C
- Boiling point: 37,7 °C
- Vapour pressure: (20 °C) ~ 500 hPa
- LD 50 (oral, rat): 350 mg/kg
- EC-Index-No.: 007-001-01-2
- ADR: 8 C5 III UN 2672
- IMDG: 8 III UN 2672
- IATA/ICAO: 8 III UN 2672
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335 - H400
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 2814 20 00 00
- Applications: analytical chemistry, laboratory reagent.

SPECIFICATIONS

assay (acidimetric, NH₃): min. 25 %
 aluminium (Al): max. 0,05 ppm
 barium (Ba): max. 0,05 ppm
 cadmium (Cd): max. 0,05 ppm
 calcium (Ca): max. 0,05 ppm
 chromium (Cr): max. 0,05 ppm
 cobalt (Co): max. 0,05 ppm
 copper (Cu): max. 0,05 ppm
 iron (Fe): max. 0,05 ppm
 lead (Pb): max. 0,05 ppm
 lithium (Li): max. 0,05 ppm
 magnesium (Mg): max. 0,05 ppm
 manganese (Mn): max. 0,05 ppm
 molybdenum (Mo): max. 0,05 ppm
 nickel (Ni): max. 0,05 ppm
 potassium (K): max. 0,05 ppm
 silver (Ag): max. 0,05 ppm
 sodium (Na): max. 0,05 ppm
 strontium (Sr) : max. 0,05 ppm
 thallium (Tl): max. 0,05 ppm
 zinc (Zn): max. 0,05 ppm

suitability for use in LC-MS: passes test



Ammonium acetate, eluent additive for LC-MS

- Synonyms: Acetic acid ammonium salt
- CH₃COONH₄
- M = 77,08 g/mol
- CAS [631-61-8]
- EINECS-No.: 211-162-9
- Solub. in water: (20 °C): soluble
- Melting point: 114 °C
- Flash pt. 136 °C
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, for the detection of: metals.

SPECIFICATIONS

assay (acidimetric): min. 98,0 %
 identity (IR-spectrum): passes test
 aluminium (Al): max. 1 ppm
 barium (Ba): max. 1 ppm
 cadmium (Cd): max. 1 ppm
 calcium (Ca): max. 0,001%

chromium (Cr): max. 1 ppm
cobalt (Co): max. 1 ppm
copper (Cu): max. 1 ppm
iron (Fe): max. 1 ppm
lead (Pb): max. 1 ppm
lithium (Li): max. 1 ppm
magnesium (Mg): max. 1 ppm
manganese (Mn): max. 1 ppm
molybdenum (Mo): max. 1 ppm
nickel (Ni): max. 1 ppm
potassium (K): max. 0,005 %
sodium (Na): max. 0,005 %
strontium (Sr) : max. 1 ppm
zinc (Zn): max. 1 ppm

suitability for use in LC-MS: passes test



Ammonium formate, eluent additive for LC-MS

- Synonyms: Formic acid ammonium salt
- HCOONH4
- M = 63,06 g/mol
- CAS [540-69-2]
- EINECS-No.: 208-753-9
- Solub. in water: (20 °C): miscible
- Melting point: 116 °C
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305+P351+P338 - P321 - P405 - P501a
- Tariff number: 2915 12 00 00

SPECIFICATIONS

assay (iodometric): min. 97 %
aluminium (Al): max. 1 ppm
barium (Ba): max. 1 ppm
cadmium (Cd): max. 1 ppm
calcium (Ca): max. 5 ppm
chromium (Cr): max. 1 ppm
cobalt (Co): max. 1 ppm
copper (Cu): max. 1 ppm
iron (Fe): max. 1 ppm
lead (Pb): max. 1 ppm
lithium (Li): max. 1 ppm
magnesium (Mg): max. 5 ppm
manganese (Mn): max. 1 ppm
molybdenum (Mo): max. 1 ppm
nickel (Ni): max. 1 ppm
potassium (K): max. 5 ppm
sodium (Na): max. 5 ppm
strontium (Sr) : max. 1 ppm
zinc (Zn): max. 1 ppm

suitability for use in LC-MS: passes test



Ethyl acetate, LC-MS

- Synonyms: Acetic acid ethyl ester, Acetic ether
- C₄H₈O₂
- M = 88,10 g/mol
- CAS [141-78-6]
- EINECS-No.: 205-500-4
- Density: 0,90 g/cm³
- Solub. in water: (20 °C): 85,3 g/l
- Melting point: -83 °C
- Boiling point: 77 °C
- Flash pt. -4 °C
- Ignition temp.: 460 °C
- Vapour pressure: (20 °C) 97hPa
- Refraction index: (n 20 °C/D) 1,3723
- Dielectric const.: (25 °C) 6,0
- LD 50 (oral, rat): 5620 mg/kg
- EC-Index-No.: 607-022-00-5
- ADR: 3 F1 II UN 1173
- IMDG: 3 II UN 1173
- IATA/ICAO: 3 II UN 1173
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - H336 - EUH066
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P405 - P501a
- Tariff number: 2915 31 00 00
- Applications: solvents, perfumery, photography.

SPECIFICATIONS

assay (G.C.): min. 99,8 %
 identity (IR-spectrum): passes test
 density (20°/4°): 0,900 - 0,902
 alkalinity: max. 0,0002 meq/g
 aluminium (Al): max. 10 ppb
 calcium (Ca): max. 10 ppb
 iron (Fe): max. 10 ppb
 magnesium (Mg): max. 5 ppb
 potassium (K): max. 20 ppb
 sodium (Na): max. 100 ppb
 residue on evaporation: max. 0,0005 %
 water (K.F.): max. 0,03 %
 suitability for use in LC-MS: passes test

wavelength:: T(%) A (AU)

255 nm: 20 % 0,699 AU

258 nm: 50 % 0,301 AU

265 nm: 90 % 0,046 AU

Microfiltered through membranes of pore diameter 0,22 µm



Formic acid, eluent additive for LC-MS

- Synonyms: Methanoic acid, Formylic acid
- HCOOH
- M = 46,03 g/mol
- CAS [64-18-6]
- EINECS-No.: 200-579-1
- Density: 1,22 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ 8 °C
- Boiling point: 101 °C
- Flash pt. 48 °C

- Ignition temp.: 480 °C
- Vapour pressure: (20 °C) 42 hPa
- Refraction index: (n 20 °C/D) 1,3714
- Dielectric const.: (16 °C) 58,5
- LD 50 (oral, rat): 730 mg/kg
- EC-Index-No.: 607-001-00-0
- ADR: 8 CF1 II UN 1779
- IMDG: 8 II UN 1779
- IATA/ICAO: 8 II UN 1779
- GHS-signal word: Danger
- GHS-H sentences: H226 - H302 - H331 - H314 -
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P310 - P370+P378 - P405 - P501a
- Tariff number: 2915 11 00 00
- Applications: analytical chemistry, synthesis of organic products, in the rubber industry, acidifying agent, cosmetics.

SPECIFICATIONS

assay (acidimetric): 98 - 100 %
 aluminium (Al): max. 0,05 ppm
 barium (Ba): max. 0,05 ppm
 cadmium (Cd): max. 0,05 ppm
 calcium (Ca): max. 0,2 ppm
 chromium (Cr): max. 0,05 ppm
 cobalt (Co): max. 0,05 ppm
 copper (Cu): max. 0,05 ppm
 iron (Fe): max. 0,2 ppm
 lead (Pb): max. 0,05 ppm
 lithium (Li): max. 0,05 ppm
 magnesium (Mg): max. 0,5 ppm
 manganese (Mn): max. 0,05 ppm
 nickel (Ni): max. 0,05 ppm
 molybdenum (Mo): max. 0,05 ppm
 potassium (K): max. 0,1 ppm
 silver (Ag): max. 0,05 ppm
 sodium (Na): max. 0,5 ppm
 strontium (Sr) : max. 0,05 ppm
 thallium (Tl): max. 0,05 ppm
 zinc (Zn): max. 0,05 ppm

suitability for use in LC-MS: passes test



**Formic acid, solution 10% in water, for cleaning purposes,
LC-MS**



Methanol, LC-MS, suitable for nitrosamine analysis



Methanol, UHPLC-MS



Triethylamine, eluent additive for LC-MS



Trifluoroacetic acid, eluent additive for LC-MS



Water with 0,1% ammonium acetate, LC-MS



Water with 0,1% formic acid, LC-MS



Water with 0,1% trifluoroacetic acid, LC-MS



Water, LC-MS



Water, UHPLC-MS

По вопросам продаж и поддержки обращайтесь:

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