

Растворители Multisolvent, для синтеза пептидов, аналитические и синтетические

Технические характеристики

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SOLVENTS, MULTISOLVENT



The Multisolvent® range of solvents is made up of a group of versatile solvents that can be used in HPLC, Karl Fisher, UV/VIS spectroscopy, isocratic HPLC and general tests that require high-quality analytical products. Multisolvent®'s high purity and low water content make it an ideal candidate for most laboratory applications.



2-Propanol, Multisolvent® HPLC grade ACS ISO UV -VIS

- 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: $-89,5^\circ\text{C}$
- Boiling point: $82,4^\circ\text{C}$
- 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. 99,8 %

identity (IR-spectrum): passes test

density ($20^\circ/4^\circ$): $0,784 - 0,786$

appearance: clear
colour (Hazen): max. 10
solubility in water: passes test
acidity: max. 0,0001 meq/g
alkalinity: max. 0,0001 meq/g
chlorides (Cl): max. 0,00003 %
nitrates (NO₃): max. 0,00003 %
phosphates (as PO₄): max. 0,00005 %
sulfates (SO₄): max. 0,0001 %
aluminium (Al): max. 0,1 ppm
antimony (Sb): max. 0,02 ppm
arsenic (As): max. 0,02 ppm
barium (Ba): max 0,01 ppm
beryllium (Be): max. 0,02 ppm
bismuth (Bi): max. 0,1 ppm
boron (B): max. 0,02 ppm
cadmium (Cd): max 0,01 ppm
calcium (Ca): max. 0,1 ppm
chromium (Cr): max. 0,02 ppm
cobalt (Co): max. 0,02 ppm
copper (Cu): max. 0,02 ppm
gallium (Ga): max. 0,02 ppm
gold (Au): max. 0,02 ppm
indium (In): max. 0,02 ppm
iron (Fe): max. 0,1 ppm
lead (Pb): max. 0,1 ppm
magnesium (Mg): max. 0,02 ppm
manganese (Mn): max. 0,02 ppm
molybdenum (Mo): max. 0,02 ppm
nickel (Ni): max. 0,02 ppm
platinum (Pt): max. 0,02 ppm
silver (Ag): max. 0,02 ppm
thallium (Tl): max. 0,02 ppm
tin (Sn): max. 0,1 ppm
titanium (Ti): max. 0,02 ppm
vanadium (V): max. 0,02 ppm
zinc (Zn): max 0,01 ppm
zirconium (Zr): max. 0,02 ppm
acetone (G.C.): max. 0,01 %
ethanol (G.C.): max. 0,01 %
isopropylether (G.C.): max. 0,01 %
methanol (G.C.): max. 0,01 %
n-propanol (G.C.): max. 0,1 %
carbonyl compounds (as CO): max. 0,002 %
substances reducing KMnO₄ : passes test
substances darkened by H₂SO₄: passes test
residue on evaporation: max. 0,0002 %
water (K.F.): max. 0,05 %

absorbance: passes test

wavelength:: T(%) A (AU)
207 nm: 10 % 1,000 AU
217 nm: 50 % 0,301 AU
232 nm: 80 % 0,097 AU
242 nm: 90 % 0,046 AU
260 nm: 98 % 0,009 AU

Microfiltered through membranes of pore diameter 0,22 µm

Volume

x 1 l

Reference[AL03211000](#)**Packaging**

x 1 l :: Glass bottle

Volume

x 2,5 l

Reference[AL03212500](#)**Packaging**

x 2,5 l :: Glass bottle



Acetone, Multisolvent® HPLC grade ACS ISO UV-VIS

- Synonyms: Dimethyl ketone, 2-Propanone
- C₃H₆O
- M = 58,08 g/mol
- CAS [67-64-1]
- EINECS-No.: 200-662-2
- Density: 0,79 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -95 °C
- Boiling point: 56 °C
- Flash pt. < -20 °C
- Ignition temp.: 540 °C
- Vapour pressure: (20 °C) 233 hPa
- Refraction index: (n 20 °C/D) 1,3588
- Dielectric const.: (25 °C) 20,7
- LD 50 (oral, rat): 5800 mg/kg
- EC-Index-No.: 606-001-00-8
- ADR: 3 F1 II UN 1090
- IMDG: 3 II UN 1090
- IATA/ICAO: 3 II UN 1090
- 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: 2914 11 00 00
- Applications: solvents, analytical chemistry, synthesis of organic products, photography.

SPECIFICATIONS

assay (G.C.): min. 99,8 %
identity (IR-spectrum): passes test:
density (20°/4°): 0,787 - 0,791
appearance of solution: passes test
colour (Hazen): max. 10
solubility in water: passes test
insoluble in water: passes test
acidity: max. 0,0002 meq/g
alkalinity: max. 0,0002 meq/g
chlorides (Cl): max. 0,00001 %
nitrates (NO₃): max. 0,00001 %
phosphates (as PO₄): max. 0,00001 %
sulfates (SO₄): max. 0,00001 %
aluminium (Al): max. 0,1 ppm
antimony (Sb): max. 0,02 ppm
arsenic (As): max. 0,02 ppm
barium (Ba): max 0,01 ppm
beryllium (Be): max. 0,02 ppm

bismuth (Bi): max. 0,02 ppm
boron (B): max. 0,02 ppm
cadmium (Cd): max 0,01 ppm
calcium (Ca): max. 0,3 ppm
chromium (Cr): max. 0,02 ppm
cobalt (Co): max. 0,02 ppm
copper (Cu): max 0,01 ppm
gallium (Ga): max. 0,02 ppm
germanium (Ge): max. 0,02 ppm
gold (Au): max. 0,02 ppm
indium (In): max. 0,02 ppm
iron (Fe): max. 0,02 ppm
lead (Pb): max 0,01 ppm
lithium (Li): max. 0,05 ppm
magnesium (Mg): max. 0,1 ppm
manganese (Mn): max 0,01 ppm
molybdenum (Mo): max. 0,02 ppm
nickel (Ni): max 0,01 ppm
silver (Ag): max. 0,02 ppm
thallium (Tl): max. 0,02 ppm
tin (Sn): max. 0,1 ppm
titanium (Ti): max. 0,02 ppm
vanadium (V): max. 0,02 ppm
zinc (Zn): max 0,01 ppm
zirconium (Zr): max. 0,02 ppm
aldehydes (as HCHO): max. 0,002 %
cyclohexane (G.C.): max. 0,1 %
alcohol diacetone (G.C.): max. 0,02 %
ethanol (G.C.): max. 0,01 %
methanol (G.C.): max. 0,05 %
2-propanol (G.C.): max. 0,05 %
reducing substances: passes test
residue on evaporation: max. 0,0002 %
water (K.F.): max. 0,2 %

absorbance: passes test

wavelength:: T(%) A (AU)
330 nm: 10 % 1,000 AU
335 nm: 50 % 0,301 AU
339 nm: 80 % 0,097 AU
342 nm: 90 % 0,046 AU
350 nm: 98 % 0,009 AU

Microfiltered through membranes of pore diameter 0,22 µm



Acetonitrile, Multisolvant® HPLC grade, ACS, UV-VIS, Reag. Ph Eur. Methyl cyanide, Cyanomethane

- 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 %
 litmus paper test: passes test
 identity (IR-spectrum): passes test
 density (20°/20°): 0,781 - 0,785
 refractive index n_{20/D}: 1,343 - 1,345
 distillation range (80-82°C): min. 95 %
 appearance: clear
 colour (Hazen): max. 10
 acidity: max. 0,0002 meq/g
 alkalinity: max. 0,0001 meq/g
 cyanides (CN): max. 50 ppm
 aluminium (Al): max. 0,1 ppm
 barium (Ba): max 0,01 ppm
 boron (B): max. 0,02 ppm
 cadmium (Cd): max 0,01 ppm
 calcium (Ca): max. 0,3 ppm
 chromium (Cr): max. 0,02 ppm
 cobalt (Co): max. 0,02 ppm
 copper (Cu): max. 0,02 ppm
 iron (Fe): max. 0,02 ppm
 lead (Pb): max. 0,1 ppm
 magnesium (Mg): max. 0,1 ppm
 manganese (Mn): max. 0,01 ppm
 nickel (Ni): max. 0,02 ppm
 tin (Sn): max. 0,1 ppm
 zinc (Zn): max 0,01 ppm
 residue on evaporation: max. 0,0002 %
 water (K.F.): max. 0,03 %

absorbance: passes test
 gradient elution: passes test

UV Spectroscopy in a 1,0 cm cell:

195 nm: min. 70
 200 nm: min. 90
 230 nm: min. 98
 240-420 nm: min. 97,7

195 nm: max. 0,155
 200 nm: max. 0,046
 230 nm: max. 0,009
 240-420 nm: max. 0,010

Microfiltered through membranes of pore diameter 0,22 µm



Chloroform, stabilized with ethanol, Multisolvent® HPLC grade ACS ISO UV-VIS

- Synonyms: Trichloromethane, Formyl trichloride
- CHCl_3
- $M = 119,38 \text{ g/mol}$
- CAS [67-66-3]
- EINECS-No.: 200-663-8
- Density: $1,47 \text{ g/cm}^3$
- Solub. in water: (20°C): 8 g/l
- Melting point: -63°C
- Boiling point: 61°C
- Ignition temp.: 982°C
- Vapour pressure: (20°C) 213 hPa
- Dielectric const.: (20°C) $4,8$
- LD 50 (oral, rat): 908 mg/kg
- EC-Index-No.: 602-006-00-4
- ADR: 6.1 T1 III UN 1888
- IMDG: 6.1 III UN 1888
- IATA/ICAO: 6.1 III UN 1888
- GHS-signal word: Danger
- GHS-H sentences: H302 - H315 - H319 - H331 - H351 - H361d - H372
- GHS-P sentences: P260 - P280 - P305+P351+P338 - P321 - P405 - P501a
- Tariff number: 2903 13 00 00
- Applications: solvents, analytical chemistry, in the rubber industry.

SPECIFICATIONS

assay (G.C.): min. 99,8 %
identity (IR-spectrum): passes test
density ($20^\circ/4^\circ$): $1,474 - 1,483$
appearance: clear
colour (Hazen): max. 10
ethanol (G.C.): 0,5 - 1,0 %
acidity: max. 0,0001 meq/g
free chlorine (as Cl): max. 0,00003 %
chlorides (Cl): max. 0,00002 %
aluminium (Al): max. 0,1 ppm
barium (Ba): max. 0,1 ppm
boron (B): max 0,01 ppm
cadmium (Cd): max. 0,02 ppm
calcium (Ca): max 0,01 ppm
chromium (Cr): max. 0,02 ppm
cobalt (Co): max. 0,02 ppm
copper (Cu): max 0,01 ppm
iron (Fe): max. 0,02 ppm
lead (Pb): max 0,01 ppm
magnesium (Mg): max. 0,1 ppm
manganese (Mn): max 0,01 ppm
nickel (Ni): max. 0,02 ppm
tin (Sn): max. 0,1 ppm
zinc (Zn): max. 0,3 ppm
aldehydes and ketones (as $\text{C}_2\text{H}_5\text{CHO}$): passes test
carbon tetrachloride (G.C.): max. 0,01 %
dichloromethane (G.C.): max. 0,01 %
tetrachloroethylene (G.C.): max. 0,01 %
trichloroethylene (G.C.): max. 0,01 %
suitability for use in dithizone tests: passes test
substances darkened by H_2SO_4 : passes test
residue on evaporation: max. 0,0002 %
water (K.F.): max. 0,01 %

liquid chromatography suitability absorbance: passes test

wavelength:: T(%) A (AU)

250 nm: 50 % 0,301 AU

265 nm: 90 % 0,046 AU

300 nm: 98 % 0,009 AU

Microfiltered through membranes of pore diameter 0,22 µm



Cyclohexane, Multisolvent® HPLC grade ACS ISO UV-VIS

- Synonyms: Hexahydrobenzene, Hexamethylene, Naphthene
- C₆H₁₂
- M = 84,16 g/mol
- CAS [110-82-7]
- EINECS-No.: 203-806-2
- Density: 0,78 g/cm³
- Solub. in water: (20 °C): 55 mg/l
- Melting point: 6 °C
- Boiling point: 80,7 - 81 °C
- Flash pt. -18 °C
- Ignition temp.: 260 °C
- Vapour pressure: (20 °C) 103 hPa
- Refraction index: (n 20 °C/D) 1,4264
- Dielectric const.: (20 °C) 2,0
- LD 50 (oral, rat): 12705 mg/kg
- EC-Index-No.: 601-017-00-1
- ADR: 3 F1 II UN 1145
- IMDG: 3 II UN 1145
- IATA/ICAO: 3 II UN 1145
- GHS-signal word: Danger
- GHS-H sentences: H225 - H315 - H319 - H335 - H336 - H304 - H410
- GHS-P sentences: P210 - P301+P310 - P303+P361+P353 - P370+P378 - P405 - P501a
- Tariff number: 2902 11 00 00
- Applications: solvents, analytical chemistry, synthesis of organic products.

SPECIFICATIONS

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

identity (IR-spectrum): passes test

density (20°/4°): 0,776 - 0,780

appearance: clear

colour (Hazen): max. 10

acidity: max. 0,0003 meq/g

melting point: min. 6,0 °C

aluminium (Al): max. 0,1 ppm

barium (Ba): max 0,01 ppm

boron (B): max. 0,02 ppm

cadmium (Cd): max 0,01 ppm

calcium (Ca): max. 0,3 ppm

chromium (Cr): max. 0,02 ppm

cobalt (Co): max. 0,02 ppm

copper (Cu): max. 0,02 ppm

iron (Fe): max. 0,02 ppm

lead (Pb): max. 0,1 ppm

magnesium (Mg): max. 0,1 ppm

manganese (Mn): max 0,01 ppm

nickel (Ni): max. 0,02 ppm

tin (Sn): max. 0,1 ppm

zinc (Zn): max 0,01 ppm
aromatic hydrocarbons (as C₆H₆): max. 0,001 %
cyclohexene (G.C.): max. 0,05 %
ethanol (G.C.): max. 0,01 %
substances darkened by H₂SO₄: passes test
residue on evaporation: max. 0,0002 %
water (K.F.): max. 0,01 %

liquid chromatography suitability absorbance: passes test

wavelength:: T(%) A (AU)
208 nm: 20 % 0,699 AU
223 nm: 50 % 0,301 AU
232 nm: 80 % 0,097 AU
240 nm: 90 % 0,046 AU
250 nm: 98 % 0,009 AU
270 nm: 99 % 0,004 AU

Microfiltered through membranes of pore diameter 0,22 µm



Dichloromethane, stabilized with approx. 50 ppm of amylene, Multisolvent® HPLC grade ACS ISO UV-VIS

- Synonyms: Methylene chloride, Chloromethylene
- CH₂Cl₂
- M = 84,93 g/mol
- CAS [75-09-2]
- EINECS-No.: 200-838-9
- Density: 1,32 g/cm³
- Solub. in water: (20 °C): 20 g/l
- Melting point: ~ -95 °C
- Boiling point: 40 °C
- Ignition temp.: 605 °C
- Vapour pressure: (20 °C) 475 hPa
- Dielectric const.: (20 °C) 9,1
- LD 50 (oral, rat): 1600 mg/kg
- EC-Index-No.: 602-004-00-3
- ADR: 6.1 T1 III UN 1593
- IMDG: 6.1 III UN 1593
- IATA/ICAO: 6.1 III UN 1593
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335 - H336 - H351 - H373 -
- GHS-P sentences: P260 - P280 - P305+P351+P338 - P321 - P405 - P501a
- Tariff number: 2903 12 00 00
- Applications: solvents, analytical chemistry.

SPECIFICATIONS

assay (G.C.): min. 99,9 %
identity (IR-spectrum): passes test
density (20°/4°): 1,323 - 1,327
appearance: clear
colour (Hazen): max. 10
acidity: max. 0,0002 meq/g
alkalinity: max. 0,0002 meq/g
free chlorine (as Cl): max. 0,00002 %
chlorides (Cl): max. 0,0001 %
aluminium (Al): max. 0,1 ppm
barium (Ba): max 0,01 ppm
boron (B): max. 0,02 ppm

cadmium (Cd): max 0,01 ppm
calcium (Ca): max. 0,3 ppm
chromium (Cr): max. 0,02 ppm
cobalt (Co): max. 0,02 ppm
copper (Cu): max. 0,02 ppm
iron (Fe): max. 0,02 ppm
lead (Pb): max. 0,1 ppm
magnesium (Mg): max. 0,1 ppm
manganese (Mn): max 0,01 ppm
nickel (Ni): max. 0,02 ppm
tin (Sn): max. 0,1 ppm
zinc (Zn): max 0,01 ppm
carbon tetrachloride (G.C.): max. 0,005 %
chloroform (G.C.): max. 0,005 %
ethanol (G.C.): max. 0,02 %
methanol (G.C.): max. 0,01 %
formaldehyde: max. 0,0005 %
residue on evaporation: max. 0,0002 %
water (K.F.): max. 0,01 %

liquid chromatography suitability absorbance: passes test

wavelength:: T(%) A (AU)

235 nm: 20 % 0,699 AU

240 nm: 50 % 0,301 AU

245 nm: 80 % 0,097 AU

248 nm: 90 % 0,046 AU

255 nm: 98 % 0,009 AU

Microfiltered through membranes of pore diameter 0,22 µm



Diethyl ether, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT), Multisolvent®, ACS

- Synonyms: Ethyl ether, Ethyl oxide, Ether
- C₄H₁₀O
- M = 74,12 g/mol
- CAS [60-29-7]
- EINECS-No.: 200-467-2
- Density: 0,71 g/cm³
- Solub. in water: (20 °C): 69 g/l
- Melting point: -116,3 °C
- Boiling point: 34,6 °C
- Flash pt. -40 °C
- Ignition temp.: 170 °C
- Vapour pressure: (20 °C) 587 hPa
- Dielectric const.: (20 °C) 4,3
- LD 50 (oral, rat): 1215 mg/kg
- EC-Index-No.: 603-022-00-4
- ADR: 3 F1 I UN 1155
- IMDG: 3 I UN 1155
- IATA/ICAO: 3 I UN 1155
- GHS-signal word: Danger
- GHS-H sentences: H224 - H302 - H336 - EUH019 - EUH066
- GHS-P sentences: P210 - P241 - P303+P361+P353 - P370+P378 - P405 - P501a
- Tariff number: 2909 11 00 00
- Applications: solvents, synthesis of organic products, solvent for active principles from plant and animal tissues extractions.

SPECIFICATIONS

assay (G.C.): min. 99,7 %
identity (IR-spectrum): passes test
density (20°/4°): 0,713 - 0,715
appearance: clear
colour (Hazen): max. 10
acidity: max. 0,0002 meq/g
alkalinity: max. 0,0002 meq/g
chlorides (Cl): max. 0,00003 %
sulfates (SO₄): max. 0,00003 %
aluminium (Al): max. 0,1 ppm
barium (Ba): max. 0,1 ppm
boron (B): max. 0,02 ppm
cadmium (Cd): max 0,01 ppm
calcium (Ca): max. 0,3 ppm
chromium (Cr): max. 0,02 ppm
cobalt (Co): max. 0,02 ppm
copper (Cu): max. 0,02 ppm
iron (Fe): max. 0,02 ppm
lead (Pb): max. 0,1 ppm
magnesium (Mg): max. 0,1 ppm
manganese (Mn): max 0,01 ppm
nickel (Ni): max. 0,02 ppm
tin (Sn): max. 0,1 ppm
zinc (Zn): max 0,01 ppm
acetone (G.C.): max. 0,005 %
ethanol (G.C.): max. 0,02 %
methanol (G.C.): max. 0,02 %
aldehydes (as HCHO): max. 0,00007 %
carbonyl compounds (as CH₃CHO): max. 0,001 %
carbonyl compounds (as CO): max. 0,001 %
peroxides (as H₂O₂): max. 0,000015 %
sulphur compounds (as S): max. 0,00006 %
substances darkened by H₂SO₄: passes test
residue on evaporation: max. 0,001 %
water (K.F.): max. 0,03 %



Ethanol 96% v/v, Multisolvent® HPLC grade ACS UV-VIS

- Synonyms: Ethyl alcohol, Methylcarbinol, Spirit, Spirit of wine
- C₂H₅OH
- M = 46,07 g/mol
- CAS [64-17-5]
- EINECS-No.: 200-578-6
- Density: 0,81 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -117 °C
- Boiling point: 78 °C
- Flash pt. 17 °C
- Ignition temp.: 425 °C
- Vapour pressure: (20 °C) ~ 59 hPa
- Dielectric const.: (25 °C) 24,3
- LD 50 (oral, rat): 6200 mg/kg (anhydrous substance)
- EC-Index-No.: 603-002-00-5
- ADR: 3 F1 II UN 1170
- IMDG: 3 II UN 1170
- IATA/ICAO: 3 II UN 1170
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P403+P235

- P501a
- Tariff number: 2207 10 00 90
- Applications: solvents, disinfectant, for pharmaceutical use, synthesis of organic products, perfumery.

SPECIFICATIONS

assay (G.C.) (v/v): 95,1 - 96,9 %
identity (IR-spectrum): passes test
density (20°/4°): 0,804 - 0,807
appearance: clear
colour (Hazen): max. 10
acidity: max. 0,0002 meq/g
alkalinity: max. 0,0002 meq/g
chlorides (Cl): max. 0,00003 %
nitrates (NO₃): max. 0,00003 %
phosphates (as PO₄): max. 0,00003 %
sulfates (SO₄): max. 0,00003 %
aluminium (Al): max. 0,1 ppm
antimony (Sb): max. 0,02 ppm
arsenic (As): max. 0,02 ppm
barium (Ba): max 0,01 ppm
beryllium (Be): max. 0,02 ppm
bismuth (Bi): max. 0,02 ppm
boron (B): max. 0,02 ppm
cadmium (Cd): max 0,01 ppm
calcium (Ca): max. 0,3 ppm
chromium (Cr): max. 0,02 ppm
cobalt (Co): max. 0,02 ppm
copper (Cu): max. 0,02 ppm
gallium (Ga): max. 0,02 ppm
gold (Au): max. 0,02 ppm
indium (In): max. 0,02 ppm
iron (Fe): max. 0,02 ppm
lead (Pb): max. 0,1 ppm
lithium (Li): max. 0,02 ppm
magnesium (Mg): max. 0,1 ppm
manganese (Mn): max. 0,02 ppm
molybdenum (Mo): max. 0,02 ppm
nickel (Ni): max. 0,02 ppm
platinum (Pt): max. 0,02 ppm
silver (Ag): max. 0,02 ppm
thallium (Tl): max. 0,02 ppm
tin (Sn): max. 0,1 ppm
titanium (Ti): max. 0,02 ppm
vanadium (V): max. 0,02 ppm
zinc (Zn): max 0,01 ppm
zirconium (Zr): max. 0,02 ppm
formaldehyde: max. 0,0005 %
furfural: passes test
fusel oil: passes test
acetaldehyde and acetal (G.C.): max. 0,001 %
acetone (G.C.): max. 0,001 %
benzene (G.C.): max. 0,0002 %
isoamyl alcohol (G.C.): max. 0,05 %
methanol (G.C.): max. 0,01 %
methylethylketone (G.C.): max. 0,002 %
2-propanol (G.C.): max. 0,003 %
aldehydes (as CH₃CHO): max. 0,001 %
carbonyl compounds (as CO): max. 0,003 %
higher alcohols (G.C.): max. 0,01 %
substances reducing KMnO₄ : passes test
substances darkened by H₂SO₄: passes test
residue on evaporation: max. 0,0002 %
water (v/v) (K.F.): 3,1- 4,9 %

liquid chromatography suitability absorbance:

wavelength:: T(%) A (AU)

210 nm: 35 % 0,456 AU

220 nm: 55 % 0,260 AU

230 nm: 72 % 0,143 AU

250 nm: 90 % 0,046 AU

270 nm: 98 % 0,009 AU

Microfiltered through membranes of pore diameter 0,22 µm



Ethanol absolute, Multisolvent® HPLC grade ACS ISO UV-VIS

- Synonyms: Ethyl alcohol, Methylcarbinol, Spirit, Spirit of wine
- C₂H₅OH
- M = 46,07 g/mol
- CAS [64-17-5]
- EINECS-No.: 200-578-6
- Density: 0,79 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -114,5 °C
- Boiling point: 78,3 °C
- Flash pt. 13 °C
- Ignition temp.: 425 °C
- Vapour pressure: (20 °C) 59 hPa
- Dielectric const.: (25 °C) 24,3
- LD 50 (oral, rat): 6200 mg/kg
- EC-Index-No.: 603-002-00-5
- ADR: 3 F1 II UN 1170
- IMDG: 3 II UN 1170
- IATA/ICAO: 3 II UN 1170
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - -
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P403+P235 - P501a
- Tariff number: 2207 10 00 90
- Applications: solvents, disinfectant, for pharmaceutical use, synthesis of organic products, perfumery.

SPECIFICATIONS

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

identity (IR-spectrum): passes test

density (20°/4°): 0,789 - 0,791

appearance: clear

colour (Hazen): max. 10

solubility in water: passes test

acidity: max. 0,0002 meq/g

alkalinity: max. 0,0002 meq/g

chlorides (Cl): max. 0,00003 %

nitrites (NO₂): max. 0,00003 %

phosphates (as PO₄): max. 0,00003 %

sulfates (SO₄): max. 0,00003 %

acetone (G.C.): max. 0,001 %

benzene (G.C.): max. 0,0002 %

isoamyl alcohol (G.C.): max. 0,05 %

methanol (G.C.): max. 0,01 %

methylethylketone (G.C.): max. 0,02 %

2-propanol (G.C.): max. 0,003 %
carbonyl compounds (as CO): max. 0,03 %
higher alcohols (G.C.): max. 0,01 %
substances reducing KMnO₄ : passes test
substances darkened by H₂SO₄: passes test
residue on evaporation: max. 0,0004 %
water (v/v) (K.F.): max. 0,1 %

liquid chromatography suitability absorbance: passes test

wavelength:: T(%) A (AU)
220 nm: 55 % 0,260 AU
230 nm: 72 % 0,143 AU
245 nm: 90 % 0,046 AU
270 nm: 98 % 0,009 AU

Microfiltered through membranes of pore diameter 0,22 µm



Ethyl acetate, Multisolvent® HPLC grade ACS ISO UV-VIS

- 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
appearance: clear
colour (Hazen): max. 10
acidity or alkalinity: max. 0,0002 meq/g
aluminium (Al): max. 0,1 ppm
barium (Ba): max 0,01 ppm
boron (B): max. 0,02 ppm
cadmium (Cd): max 0,01 ppm
calcium (Ca): max. 0,3 ppm
chromium (Cr): max. 0,02 ppm

cobalt (Co): max. 0,02 ppm
copper (Cu): max. 0,02 ppm
iron (Fe): max. 0,02 ppm
lead (Pb): max. 0,1 ppm
magnesium (Mg): max. 0,1 ppm
manganese (Mn): max 0,01 ppm
nickel (Ni): max. 0,02 ppm
tin (Sn): max. 0,1 ppm
zinc (Zn): max 0,01 ppm
ethanol (G.C.): max. 0,1 %
methanol (G.C.): max. 0,1 %
methyl acetate (G.C.): max. 0,1 %
substances darkened by H₂SO₄: passes test
residue on evaporation: max. 0,0002 %
water (K.F.): max. 0,03 %

absorbance: passes test

wavelength:: T(%) A (AU)
255 nm: 20 % 0,699 AU
260 nm: 50 % 0,301 AU
263 nm: 80 % 0,097 AU
265 nm: 90 % 0,046 AU
280 nm: 98 % 0,009 AU

Microfiltered through membranes of pore diameter 0,22 µm



Hexane, fraction from petroleum, Multisolvant® HPLC grade ACS

- C₆H₁₄
- M = 86,18 g/mol
- CAS [92112-69-1]
- EINECS-No.: 295-570-2
- Density: 0,67 g/cm³
- Solub. in water: (20 °C): insoluble
- Boiling point: 65 - 70 °C
- Flash pt. -22 °C
- Vapour pressure: (20 °C) 160 hPa
- Refraction index: (n 20 °C/D) 1,380
- EC-Index-No.: 601-037-00-0
- ADR: 3 F1 II UN 1208
- IMDG: 3 II UN 1208
- IATA/ICAO: 3 II UN 1208
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H315 - H336 - H361 - H373 - H411
- GHS-P sentences: P210 - P301+P310 - P303+P361+P353 - P370+P378 - P405 - P501a
- Tariff number: 2901 10 00 00
- Applications: analytical chemistry, for spectroscopy, manufacture of dyes.
- Appearance: Colourless clear liquid

SPECIFICATIONS

boiling range: 65 - 70 °C
appearance: clear
colour (Hazen): max. 10
acidity: max. 0,0002 meq/g
aluminium (Al): max. 0,1 ppm
barium (Ba): max 0,01 ppm

boron (B): max. 0,02 ppm
cadmium (Cd): max 0,01 ppm
calcium (Ca): max. 0,3 ppm
chromium (Cr): max. 0,02 ppm
cobalt (Co): max. 0,02 ppm
copper (Cu): max. 0,02 ppm
iron (Fe): max. 0,02 ppm
lead (Pb): max. 0,1 ppm
magnesium (Mg): max. 0,1 ppm
manganese (Mn): max 0,01 ppm
nickel (Ni): max. 0,02 ppm
tin (Sn): max. 0,1 ppm
zinc (Zn): max 0,01 ppm
aromatic hydrocarbons (as C₆H₆): max. 0,01 %
sulphur compounds (as S): max. 0,005 %
substances darkened by H₂SO₄: passes test
residue on evaporation: max. 0,0002 %
water (K.F.): max. 0,01 %

liquid chromatography suitability absorbance: passes test

wavelength:: T(%) A (AU)
200 nm: 10 % 1,000 AU
210 nm: 30 % 0,523 AU
230 nm: 90 % 0,046 AU
254 nm: 99 % 0,004 AU

Microfiltered through membranes of pore diameter 0,22 µm



Methanol, Multisolvent® HPLC grade ACS ISO UV-VIS K.F.

- Synonyms: Methyl alcohol, Carbinol, Methynol, Wood alcohol
- CH₃OH
- M = 32,04 g/mol
- CAS [67-56-1]
- EINECS-No.: 200-659-6
- Density: 0,792 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -98 °C
- Boiling point: 65 °C
- Flash pt. 10 °C
- Ignition temp.: 455 °C
- Vapour pressure: (20 °C) 128 hPa
- Refraction index: (n 20 °C/D) 1,3288
- Dielectric const.: (25 °C) 32,6
- LD 50 (oral, rat): 5628 mg/kg
- EC-Index-No.: 603-001-00-X
- ADR: 3 FT1 II UN 1230
- IMDG: 3 II UN 1230
- IATA/ICAO: 3 II UN 1230
- GHS-signal word: Danger
- GHS-H sentences: H225 - H301 - H311 - H331 - H370
- GHS-P sentences: P210 - P301+P310 - P303+P361+P353 - P370+P378 - P405 - P501a
- Tariff number: 2905 11 00 10
- Applications: solvents, synthesis of organic products, in antifreeze compositions, solvent for animal and vegetable oils extractions.
- Appearance: Incolore

SPECIFICATIONS

assay (G.C.): min. 99,8 %
density (20°/20°): 0,791 - 0,793
colour (Hazen): max. 10
boiling point: 64 - 65 °C
solubility in water: passes test
acidity: max. 0,0003 meq/g
alkalinity: max. 0,0002 meq/g
carbonyl compounds : passes test
acetone (G.C.): max. 0,001 %
formaldehyde (G.C.): max. 0,001 %
acetaldehyde (G.C.): max. 0,001 %
substances darkened by H₂SO₄: passes test
substances reducing KMnO₄ : passes test
absorbance test: passes test
gradient elution test: passes test
residue on evaporation: max. 0,001 %
water (K.F.): max. 0,1 %

wavelength:: T(%) A (AU)
205 nm: 10 % 1,00 AU
210 nm: 20 % 0,70 AU
220 nm: 50 % 0,30 AU
225 nm: 68 % 0,17 AU
230 nm: 74 % 0,13 AU
240 nm: 80 % 0,10 AU
250 nm: 96 % 0,02 AU
260 - 400 nm: 98 % 0,01 AU

Microfiltered through membranes of pore diameter 0,22 µm



**N,N-Dimethylformamide, Multisolvent® HPLC grade ACS
ISO UV-VIS**



n-Hexane, 96%, Multisolvent® HPLC grade ACS UV-VIS



**Petroleum ether, boiling range 40 - 60 °C, Multisolvent®
HPLC grade ACS ISO UV-VIS**



Tetrachloroethene, Multisolvent® HPLC grade UV-VIS



**Tetrahydrofuran, Multisolvent® GPC grade, ACS, stab.
with 250 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)**



Toluene, Multisolvent® HPLC grade ACS ISO UV-VIS



Xylene, mixture of isomers, Multisolvent® ACS

SOLVENTS, PEPTIDE SYNTHESIS



The solvents used in peptide synthesis reactions have the necessary properties and specifications to favour the specific binding of amino acids and the subsequent formation of peptides.



1-Methyl-2-pyrrolidone, peptide synthesis grade

- Synonyms: N-Methylpyrrolidone, N-Methyl-2-pyrrolidinone, NMP
- C₅H₉NO
- M = 99,13 g/mol
- CAS [872-50-4]
- EINECS-No.: 212-828-1
- Density: 1,03 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -24 °C
- Boiling point: 202 °C
- Flash pt. 91 °C
- Ignition temp.: 245 °C
- Vapour pressure: (20 °C) 0,32 hPa
- Refraction index: (n 20 °C/D) 1,4684
- Dielectric const.: (25 °C) 33
- LD 50 (oral, rat): 3598 mg/kg
- EC-Index-No.: 606-021-00-7
- GHS-signal word: Danger
- GHS-H sentences: H315 - H319 - H360D - H335
- GHS-P sentences: P261 - P280 - P305+P351+P338 - P321 - P405 - P501a
- Tariff number: 2933 79 00 90
- Applications: analytical chemistry, chromatography, synthesis of organic products.

SPECIFICATIONS

assay (G.C.): min. 99,5 %
identity (IR-spectrum): passes test
density (20°/4°): 1,031 - 1,034
colour (Hazen): max. 10
methylamine: max. 0,01 %
water (K.F.): max. 0,08 %



N,N-Dimethylformamide, peptide synthesis grade

- Synonyms: DMF, Formic acid dimethylamide
- C₃H₇NO
- M = 73,10 g/mol
- CAS [68-12-2]
- EINECS-No.: 200-679-5
- Density: 0,94 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -61 °C
- Boiling point: 153 °C
- Flash pt. 58 °C
- Ignition temp.: 410 °C
- Vapour pressure: (20 °C) 3,77 hPa
- Refraction index: (n 20 °C/D) 1,4305
- Dielectric const.: (20 °C) 36,7
- LD 50 (oral, rat): 2800 mg/kg
- EC-Index-No.: 616-001-00-X
- ADR: 3 F1 III UN 2265
- IMDG: 3 III UN 2265
- IATA/ICAO: 3 III UN 2265
- GHS-signal word: Danger
- GHS-H sentences: H226 - H312+H332 - H319 - H360D
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P405 -

P501a

- Tariff number: 2924 19 00 90
- Applications: solvents, synthesis of organic products.
- Appearance: Incolore

SPECIFICATIONS

assay (G.C.): min. 99,9 %
identity (IR-spectrum): passes test
density (20°/4°): 0,948 - 0,950
free acid (as HCOOH) : max. 0,001 %
free alkali (as (CH₃)₂NH): max. 0,0005 %
residue on evaporation: max. 0,0003 %
water (K.F.): max. 0,05 %



Trifluoroacetic acid, peptide synthesis grade

- Synonyms: Perfluoroacetic acid, TFA
 - CF₃COOH
 - M = 114,02 g/mol
 - CAS [76-05-1]
 - EINECS-No.: 200-929-3
 - Density: 1,48 g/cm³
 - Solub. in water: (20 °C): freely miscible
 - Melting point: -15 °C
 - Boiling point: 72 °C
 - Vapour pressure: (20 °C) 11 hPa
 - Dielectric const.: (25 °C) 42,1
 - EC-Index-No.: 607-091-00-1
 - ADR: 8 C3 I UN 2699
 - IMDG: 8 I UN 2699
 - IATA/ICAO: 8 I UN 2699
 - GHS-signal word: Danger
 - GHS-H sentences: H314 - H332 - H412
 - GHS-P sentences: P260 - P301+P310 - P303+P361+P353 - P305+P351+P338 - P405 -
- P501a
- Tariff number: 2915 90 70 90
 - Applications: analytical chemistry, for nuclear magnetic resonance spectroscopy.

SPECIFICATIONS

assay (acidimetric): min. 99,5 %
identity (IR-spectrum): passes test
density (20°/4°): 1,487 - 1,489
chlorides (Cl): max. 0,001 %
fluorides (F): max. 0,005 %
sulfates (SO₄): max. 0,001 %
residue on ignition (as SO₄): max. 0,001 %
water (K.F.): max. 0,05 %

SOLVENTS, REAGENT GRADE



Analytical grade solvents are widely used in analytical work that relies on the use of high-quality reagents for both laboratories and specialised industrial use. The analytical methods that demand this degree of purity are based on techniques published in international standards.



1,2,4-Trichlorobenzene, for analysis, ExpertQ®



1,2-Propylene glycol, for analysis, ExpertQ®, Reag. Ph Eur



1,4-Dioxane, dried (max. 0,005% H₂O), for analysis, ExpertQ®, stabilized with 2,5 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



1,4-Dioxane, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur, stabilized with 2,5 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



1-Butanol, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



1-Chlorobutane, for analysis, ExpertQ®



1-Methyl-2-pyrrolidone, for analysis, ExpertQ®, ACS



1-Propanol, for analysis, ExpertQ®



2,2,4-Trimethylpentane, for analysis, ExpertQ®, ACS, Reag. Ph Eur



2-Butanol, for analysis, ExpertQ®



2-Propanol, dried (max. 0,01% H₂O), for analysis,
ExpertQ®, ACS, ISO



2-Propanol, for analysis, ExpertQ®, ACS, ISO, Reag. Ph
Eur



2-Propanol, VLSI grade



3-Mercapto-1,2-propanediol, min. 97%, for analysis,
ExpertQ®



Acetone, dried (max. 0,01% H₂O), for analysis, ExpertQ®



Acetone, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Acetone, VLSI grade



Scharlau

Ammonia, solution 8% w/w, for analysis, ExpertQ®



Scharlau

Aniline, for analysis, ExpertQ®, ACS



Scharlau

Benzyl alcohol, for analysis, ExpertQ®, Reag. Ph Eur



Scharlau

Carbon disulfide, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Scharlau

Chlorobenzene, for analysis, ExpertQ®, ACS



Scharlau

Chloroform, for analysis, ExpertQ®, ACS, ISO, stabilized with ethanol



Scharlau

Chloroform, for analysis, ExpertQ®, ACS, stabilized with ethanol, for determinations with dithizone



Cyclohexane, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Cyclohexanol, for analysis, ExpertQ®



Dichloromethane, dried (max. 0,005% H₂O), for analysis, ExpertQ®, stabilized with approx. 50 ppm of amylene



Dichloromethane, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur, stabilized with approx. 50 ppm of amylene



Dichloromethane, for analysis, ExpertQ®, stabilized with ethanol



Diethyl ether, dried (max. 0,0075% H₂O), for analysis, ExpertQ®, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



Diethyl ether, for analysis, ExpertQ®, ACS, Reag. Ph Eur, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



Diethylamine, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Diethylene glycol monobutyl ether, for analysis, ExpertQ®



Diisopropyl ether, for analysis, ExpertQ®, ACS, stabilized with approx. 50 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



Dimethyl sulfoxide, for analysis, ExpertQ®, ACS



Ethanol 96% v/v, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Ethanol absolute, ExpertQ®, ACS



Ethanol absolute, for analysis, ExpertQ®, ACS, ISO



Ethanolamine, for analysis, ExpertQ®, ACS



Ethyl acetate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Ethyl benzene, for analysis, ExpertQ®



Ethyl methyl ketone, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Ethylene glycol monoethyl ether, for analysis, ExpertQ®, Reag. Ph Eur



Ethylene glycol monomethyl ether, for analysis, ExpertQ®, ACS



Ethylene glycol, for analysis, ExpertQ®, Reag. Ph Eur



Formamide, dried (max. 0,02% H₂O), for analysis, ExpertQ® (Karl Fischer)



Formamide, for analysis, ExpertQ®, ACS



Glycerol, 99,5%, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Glycerol, solution 86 - 88% w/w, for analysis, ExpertQ®, ISO



Hexane, fraction from petroleum, for analysis, ExpertQ®



Isoamyl alcohol, for analysis, ExpertQ®, ACS



Isobutanol, for analysis, ExpertQ®, ACS



Methanol, dried (max. 0,005% H₂O), for analysis,
ExpertQ® (Karl Fischer)



Methanol, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Methyl isobutyl ketone, for analysis, ExpertQ®, ACS



N,N-Dimethylacetamide, for analysis, ExpertQ®



N,N-Dimethylaniline, for analysis, ExpertQ®



N,N-Dimethylformamide, dried (max. 0,01% H₂O), for analysis, ExpertQ®



N,N-Dimethylformamide, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



n-Amyl alcohol, for analysis, ExpertQ®



n-Butyl acetate, for analysis, ExpertQ®, ACS



n-Butylamine, for analysis, ExpertQ®



n-Heptane, 99%, for analysis, ExpertQ®, Reag. Ph Eur



n-Hexane, 96%, for analysis, ExpertQ®, ACS, Reag. Ph Eur



n-Hexane, min. 99%, for analysis, ExpertQ®, ACS



n-Octyl alcohol, for analysis, ExpertQ®



n-Pentane, 99%, for analysis, ExpertQ®



Nitrobenzene, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Petroleum ether, boiling range 40 - 60 °C, for analysis,
ExpertQ®, ACS, ISO



Petroleum ether, boiling range 60 - 80 °C, for analysis,
ExpertQ®



Pyridine, dried (max. 0,01% H₂O), for analysis, ExpertQ®



Pyridine, for analysis, ExpertQ®, ACS, Reag. Ph Eur



TEMED, for analysis, ExpertQ®



tert-Butanol, for analysis, ExpertQ®, ACS



tert-Butyl methyl ether, for analysis, ExpertQ®, Reag. Ph Eur



Tetrachloroethene for IR



Tetrahydrofuran, dried (max. 0,005% H₂O), for analysis, ExpertQ®, stabilized with 250 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



Tetrahydrofuran, for analysis, ExpertQ®, ACS, Reag. Ph Eur, stabilized with 250 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



Toluene, dried (max. 0,0075% H₂O), for analysis, ExpertQ®, ACS, ISO



Toluene, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Triethylamine, for analysis, ExpertQ®, Reag. Ph Eur



Water, for analysis, ExpertQ®



Xylene, mixture of isomers, for analysis, ExpertQ®, ACS, Reag. Ph Eur

SOLVENTS, SYNTHESIS GRADE



Synthesis grade solvents are products of suitable quality for organic and inorganic synthesis reactions. The choice of solvent depends on the nature of the compounds, the required polarity, the specific reaction conditions and the compatibility between the reagents, among other factors.



1,2-Dichlorobenzene, EssentQ®

- Synonyms: o-Chlorobenzene
- $C_6H_4Cl_2$
- $M = 147,00 \text{ g/mol}$
- CAS [95-50-1]
- EINECS-No.: 202-425-9
- Density: $1,31 \text{ g/cm}^3$
- Solub. in water: (20 °C): $\sim 0,13 \text{ g/l}$
- Melting point: $-17 \text{ }^\circ\text{C}$
- Boiling point: $180 \text{ }^\circ\text{C}$
- Flash pt. $66 \text{ }^\circ\text{C}$
- Ignition temp.: $640 \text{ }^\circ\text{C}$
- Vapour pressure: (20 °C) $\sim 1,3 \text{ hPa}$
- Dielectric const.: (25 °C) 9,9
- EC-Index-No.: 602-034-00-7
- ADR: 6.1 T1 III UN 1591
- IMDG: 6.1 III UN 1591
- IATA/ICAO: 6.1 III UN 1591
- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319 - H335 - H410
- GHS-P sentences: P261 - P280 - P305+P351+P338 - P321 - P405 - P501a
- Tariff number: 2903 91 00 00
- Applications: solvents, degreasing agent, manufacture of dyes.

SPECIFICATIONS

assay (G.C.): min. 99,5 %

identity (IR-spectrum): passes test

density (20°/4°): 1,305 - 1,307

residue on ignition: max. 0,05 %
water (K.F.): max. 0,05 %



2-Butanol, EssentQ®

- Synonyms: sec-Butyl alcohol, Butyl alcohol secondary, Ethyl methyl carbinol
- C₄H₁₀O
- M = 74,12 g/mol
- CAS [78-92-2]
- EINECS-No.: 201-158-5
- Density: 0,81 g/cm³
- Solub. in water: (20 °C): 240 - 250 g/l
- Melting point: -89 °C
- Boiling point: 98,5 - 100,5 °C
- Flash pt. 24 °C
- Ignition temp.: 390 °C
- Vapour pressure: (20 °C) 16,5 hPa
- Dielectric const.: (20 °C) 15,8
- LD 50 (oral, rat): 6480 mg/kg
- EC-Index-No.: 603-004-01-3 [1]
- ADR: 3 F1 III UN 1120
- IMDG: 3 III UN 1120
- IATA/ICAO: 3 III UN 1120
- GHS-signal word: Warning
- GHS-H sentences: H226 - H319 - H335 - H336
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P405 - P501a
- Tariff number: 2905 14 90 00
- Applications: analytical chemistry, synthesis of organic products and perfumery.

SPECIFICATIONS

assay (G.C.): min. 99 %
identity (IR-spectrum): passes test
density (20°/4°): 0,806 - 0,808
residue on evaporation: max. 0,005 %
water (K.F.): max. 0,2 %



2-Methyltetrahydrofuran, stabilized with 0,015% approx. of 2,6-Di-tert-butyl-4-methylphenol (BHT)

- C₅H₁₀O
- M = 86,13 g/mol g/mol
- CAS [96-47-9]
- Density: 0,86g/cm³
- Melting point: -20°C
- Boiling point: 78 - 80°C
- Flash pt. -10°C
- EC-Index-No.: 202-507-4
- ADR: 3 F1 II UN 2536
- IMDG: 3 II UN 2536
- IATA/ICAO: 3 II UN 2536
- GHS-signal word: Danger
- GHS-H sentences: H225 - H302 - H315 - H318
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P405 - P501a

- Tariff number: 2932 19 00 75
- Appearance: Líquido incoloro

SPECIFICATIONS

assay (G.C): min. 99,5 %

identity (IR-spectrum): passes test

density (20°/4°): 0,848-0,858

water (K.F.): max. 0,03 %



2-Propanol, EssentQ®



Acetic acid glacial, EssentQ®



Acetone, EssentQ®



Acetylacetone, EssentQ®



Aniline, EssentQ®



Benzyl alcohol, EssentQ®



Chloroform, EssentQ[®], stabilized with ethanol



Cyclohexanol, EssentQ[®]



Dichloromethane, EssentQ[®], stabilized with approx. 50 ppm of amylene



Diethanolamine, EssentQ[®]



Diethyl ether, EssentQ[®], stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



Dimethyl sulfoxide, EssentQ[®]



Ethanol 70% v/v



Ethanol absolute, EssentQ®



Ethanolamine, EssentQ®



Ethyl acetate, EssentQ®



Ethyl methyl ketone, EssentQ®



Ethylene glycol monobutyl ether, EssentQ®



Ethylene glycol monoethyl ether, EssentQ®



Ethylene glycol monomethyl ether, EssentQ®



Ethylene glycol, EssentQ®, packed in HDPE bottles



Hexane, fraction from petroleum, EssentQ®



Isobutanol, EssentQ®



m-Xylene, EssentQ®



Methyl acetate, EssentQ®



Methyl isobutyl ketone, EssentQ®



N,N-Dimethylformamide, EssentQ®



n-Amyl alcohol, EssentQ®



Scharlau

n-Butyl acetate, EssentQ®



Scharlau

n-Heptane, 95%, EssentQ®



Scharlau

n-Heptane, 99%, EssentQ®



Scharlau

n-Hexane, 96%, EssentQ®



Scharlau

n-Pentane, 95%, EssentQ®



Scharlau

n-Pentane, 99%, EssentQ®



Scharlau

Petroleum ether, boiling range 40 - 60 °C, EssentQ®



Pyridine, EssentQ®



tert-Butanol, EssentQ®



Tetrahydrofuran, EssentQ®, stabilized with 2,6-Di-tert-butyl-4-methylphenol (BHT)



Toluene, EssentQ®



Xylene, mixture of isomers, EssentQ®

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