Растворители для газовой хромографии и ВЭЖХ

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SOLVENTS, GAS CHROMATOGRAPHY FOR PESTICIDES ULTRATRACES

The solvents used in the ultratrace analysis of pesticides by gas chromatography (GC) are highly purified products, suitable for sample extraction and concentration procedures.

Scharlau

2,2,4-Trimethylpentane, for GC residue analysis

- Synonyms: Isooctane, Isobutyltrimethylmethane, iso-Octane
- C8H18
- M = 114,26 g/mol
- CAS [540-84-1]
- EINECS-No.: 208-759-1
- Density: 0,69 g/cm3
- Solub. in water: (25 ºC): 0,56 mg/l
- Melting point: -107 ºC
- Boiling point: 99 ºC
- Flash pt. -12 ºC
- Ignition temp.: 410 ºC
- Vapour pressure: (20 ºC) 51 hPa
- Dielectric const.: (20 ºC) 1,9
- LD 50 (oral, rat): > 2000 mg/kg
- EC-Index-No.: 601-009-00-8
- ADR: 3 F1 II UN 1262
- IMDG: 3 II UN 1262
- IATA/ICAO: 3 II UN 1262
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H400 - H410 - H315 - H336
- GHS-P sentences: P210 - P301+P310 - P303+P361+P353 - P370+P378 - P405 - P501a
- Tariff number: 2901 10 00 00

- Applications: analytical chemistry, solvent for fat and oil extractions; in determining octane numbers of fuels.

SPECIFICATIONS
assay (G.C.): min. 99,5 %
identity (IR-spectrum): passes test
density (20°/4°): 0,691 - 0,693
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,01 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl. Suitable for highly volatile halogenated hydrocarbons trace analysis ECD, from dichloromethane to 1,2,4-trichlorobenzene, no peaks are obtained greater than 1 ng/ml as tetrachloromethane.

Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis FID, from 1-octanol to 1-tetradecanol, no peaks are obtained greater than 5 ng/ml as 1-tetradecanol. No peaks are obtained in vicinity of pyrene.

Volume
x 1 l
Reference
IS01571000
Packaging
x 1 l :: Glass bottle

Volume
x 2,5 l
Reference
IS01572500
Packaging
x 2,5 l :: Glass bottle

Scharlau

2-Propanol, for GC residue analysis

- Synonyms: Isopropyl alcohol, Isopropanol, iso-Propanol, Dimethylcarbinol, 2-Hydroxypropane
- C3H8O
- M = 60,10 g/mol
- CAS [67-63-0]
- EINECS-No.: 200-661-7
- Density: 0,785 g/cm3
- Solub. in water: (20 ºC): miscible
- Melting point: -89,5 ºC
- Boiling point: 82,4 ºC
- Flash pt. 12 ºC
- Ignition temp.: 425 ºC
- Vapour pressure: (20 ºC) 43 hPa
- Dielectric const.: (25 ºC) 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°/4°): 0,784 - 0,786
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,05 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl. Suitable for highly volatile halogenated hydrocarbons trace analysis ECD, from dichloromethane to 1,2,4-trichlorobenzene, no peaks are obtained greater than 1 ng/ml as tetrachloromethane.

Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis FID, from 1-octanol to 1-tetradecanol, no peaks are obtained greater than 5 ng/ml as 1-tetradecanol. No peaks are obtained in vicinity of pyrene.

Scharlau

Acetone, for GC residue analysis

- 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 ºC): miscible
- Melting point: -95 ºC
- Boiling point: 56 ºC
- Flash pt. < -20 ºC
- Ignition temp.: 540 ºC
- Vapour pressure: (20 ºC) 233 hPa
- Refraction index: (n 20 ºC/D) 1,3588
- Dielectric const.: (25 ºC) 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
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,2 %
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl.

Acetone, GC ultra-trace analysis grade

- 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 ºC): miscible
- Melting point: -95 ºC
- Boiling point: 56 ºC
- Flash pt. < -20 ºC
- Ignition temp.: 540 ºC
- Vapour pressure: (20 ºC) 233 hPa
- Refraction index: (n 20 ºC/D) 1,3588
- Dielectric const.: (25 ºC) 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 (20º/4º): 0,787 - 0,791
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,2 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl. Suitable for highly volatile halogenated hydrocarbons trace analysis

ECD, from dichloromethane to 1,2,4-trichlorobenzene, no peaks are obtained greater than 1 ng/ml as tetrachloromethane.

Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis

FID, from 1-octanol to 1-tetradecanol, no peaks are obtained greater than 5 ng/ml as 1-tetradecanol. No peaks are obtained in vicinity of pyrene.

Acetonitrile, for GC residue analysis, suitable for QuEChERS

- 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 ºC): miscible
- Melting point: -45,7 ºC
- Boiling point: 81,6 ºC
- Flash pt. 2 ºC
- Ignition temp.: 524 ºC
- Vapour pressure: (20 ºC) 97 hPa
- Refraction index: (n 20 ºC) 1,3442
- Dielectric const.: (20 ºC) 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. 99,8 %
identity (IR-spectrum): passes test
density (20º/4º): 0,779 - 0,783
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,02 %
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis

ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane.

No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl.

Suitable for QuEChERS

Scharlau

Chloroform, for GC residue analysis, stabilized with ethanol

- Synonyms: Trichloromethane, Formyl trichloride
- $CHCl_3$
- M = 119,38 g/mol
- CAS [67-66-3]
- EINECS-No.: 200-663-8
- Density: 1,47 g/cm3
- Solub. in water: (20 ºC): 8 g/l
- Melting point: -63 ºC
- Boiling point: 61 ºC
- Ignition temp.: 982 ºC
- Vapour pressure: (20º C) 213 hPa
- Dielectric const.: (20 ºC) 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 %
identity (IR-spectrum): passes test
density (20°/4°): 1,474 - 1,484
ethanol (G.C.): max. 1 %
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,01 %
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl.

Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis FID, from 1-octanol to 1-tetradecanol, no peaks are obtained greater than 5 ng/ml as 1-tetradecanol. No peaks are obtained in vicinity of pyrene.

Scharlau

Cyclohexane, for GC residue analysis

- 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 ºC): 55 mg/l
- Melting point: 6 ºC
- Boiling point: 80,7 - 81 ºC
- Flash pt. -18 ºC
- Ignition temp.: 260 ºC
- Vapour pressure: (20 ºC) 103 hPa
- Refraction index: (n 20 ºC/D) 1,4264
- Dielectric const.: (20 ºC) 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. 99,8 %
identity (IR-spectrum): passes test
density (20°/4°): 0,776 - 0,780
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,01 %
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl.

Scharlau

Cyclohexane, GC ultra-trace analysis grade

- 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 ºC): 55 mg/l
- Melting point: 6 ºC
- Boiling point: 80,7 - 81 ºC
- Flash pt. -18 ºC
- Ignition temp.: 260 ºC
- Vapour pressure: (20 ºC) 103 hPa
- Refraction index: (n 20 ºC/D) 1,4264
- Dielectric const.: (20 ºC) 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. 99,8 %
identity (IR-spectrum): passes test
density (20º/4º): 0,776 - 0,780
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,01 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl. Suitable for highly volatile halogenated hydrocarbons trace analysis ECD, from dichloromethane to 1,2,4-trichlorobenzene, no peaks are obtained greater than 1 ng/ml as tetrachloromethane.

Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis FID, from 1-octanol to 1-tetradecanol, no peaks are obtained greater than 5 ng/ml as 1-tetradecanol. No peaks are obtained in vicinity of pyrene.

Scharlau

Dichloromethane, for GC residue analysis, stabilized with approx. 50 ppm of amylene

- 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 ºC): 20 g/l
- Melting point: ~ -95 ºC
- Boiling point: 40 ºC
- Ignition temp.: 605 ºC
- Vapour pressure: (20 ºC) 475 hPa
- Dielectric const.: (20 ºC) 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 (20º/4º): 1,323 - 1,327
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,02 %
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl.

Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis FID, from 1-octanol to 1-tetradecanol, no peaks are obtained greater than 5 ng/ml as 1-tetradecanol. No peaks are obtained in vicinity of pyrene.

Scharlau

Dichloromethane, for GC residue analysis, stabilized with ethanol

- 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 ºC): 20 g/l
- Melting point: ~ -95 ºC
- Boiling point: 40 ºC
- Ignition temp.: 605 ºC
- Vapour pressure: (20 ºC) 475 hPa
- Dielectric const.: (20 ºC) 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.99,8 %
identity (IR-spectrum): passes test
density (20º/4º): 1,323 - 1,327
ethanol (G.C.): max. 0,2 %
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,02 %
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl.

Dichloromethane, GC ultra-trace analysis grade, stabilized with ethanol

- 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. 99,8 %
identity (IR-spectrum): passes test
density (20°/4°): 1,323 - 1,327
ethanol (G.C.): max. 0,2 %
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,02 %
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl.

Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis FID, from 1-octanol to 1-tetradecanol, no peaks are obtained greater than 5 ng/ml as 1-tetradecanol. No peaks are obtained in vicinity of pyrene.

Ethanol, for GC residue analysis

- 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 %
density (20º/4º): 0,789 - 0,790
identity (IR-spectrum): passes test:
residue on evaporation: max. 0,0002%
water (v/v)(K.F.): max. 0,1 %
Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis pesticide and dioxins, furans and PCBs ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl.

Scharlau

Ethanol, GC ultra-trace analysis grade

- 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 ºC): miscible
- Melting point: -114,5 ºC
- Boiling point: 78,3 ºC
- Flash pt. 13 ºC
- Ignition temp.: 425 ºC
- Vapour pressure: (20 ºC) 59 hPa
- Dielectric const.: (25 ºC) 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 %
density (20º/4º): 0,789 - 0,790
identity (IR-spectrum): passes test:
residue on evaporation: max. 0,0002 %
water (v/v)(K.F.): max. 0,1 %

Suitable for residue analysis pesticide and dioxins, furans and PCBs ECD, from 1,2,4-

trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl. Suitable for highly volatile halogenated hydrocarbons trace analysis. ECD, from dichloromethane to 1,2,4-trichlorobenzene, no peaks are obtained greater than 1 ng/ml as tetrachloromethane.

Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis. FID, from 1-decanol to 1-tetradecanol, no peaks are obtained greater than 5 ng/ml as 1-tetradecanol. No peaks are obtained in vicinity of pyrene.

Scharlau

Ethyl acetate, for GC residue analysis

- 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 ºC): 85,3 g/l
- Melting point: -83 ºC
- Boiling point: 77 ºC
- Flash pt. -4 ºC
- Ignition temp.: 460 ºC
- Vapour pressure: (20 ºC) 97hPa
- Refraction index: (n 20 ºC/D) 1,3723
- Dielectric const.: (25 ºC) 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 (20º/4º): 0,900 - 0,902
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,02 %
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl.

Scharlau

Ethyl acetate, GC ultra-trace analysis grade

- 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 ºC): 85,3 g/l

- Melting point: -83 ºC
- Boiling point: 77 ºC
- Flash pt. -4 ºC
- Ignition temp.: 460 ºC
- Vapour pressure: (20 ºC) 97hPa
- Refraction index: (n 20 ºC/D) 1,3723
- Dielectric const.: (25 ºC) 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 (20º/4º): 0,900 - 0,902
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,02 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl. Suitable for highly volatile halogenated hydrocarbons trace analysis ECD, from dichloromethane to 1,2,4-trichlorobenzene, no peaks are obtained greater than 1 ng/ml as tetrachloromethane.

Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis FID, from 1-octanol to 1-tetradecanol, no peaks are obtained greater than 5 ng/ml as 1-tetradecanol. No peaks are obtained in vicinity of pyrene.

Scharlau

Hexane, fraction from petroleum, for GC residue analysis

- C6H14
- M = 86,18 g/mol
- CAS [92112-69-1]
- EINECS-No.: 295-570-2
- Density: 0,67 g/cm3
- Solub. in water: (20 ºC): insoluble
- Boiling point: 65 - 70 ºC
- Flash pt. -22 ºC
- Vapour pressure: (20 ºC) 160 hPa
- Refraction index: (n 20 ºC/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

residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,01 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl.

Methanol, for GC residue analysis

- 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 ºC) 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: Incoloro

SPECIFICATIONS
assay (G.C.): min. 99,9 %
identity (IR-spectrum): passes test
density (20º/4º): 0,790 - 0,792
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,03 %
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of 2,4,5-trichlorobiphenyl.

Methanol, GC ultra-trace analysis grade

N,N-Dimethylformamide, for GC residue analysis

Scharlau

n-Heptane, GC ultra-trace analysis grade

Scharlau

n-Hexane, 96%, for GC residue analysis

Scharlau

n-Hexane, 96%, GC ultra-trace analysis grade

Scharlau

n-Pentane, 99%, for GC residue analysis

Scharlau

n-Pentane, 99%, GC ultra-trace analysis grade

Scharlau

Petroleum ether, boiling range 40 - 60 °C, for GC residue analysis

Scharlau

Petroleum ether, boiling range 40 - 60 °C, GC ultra-trace analysis grade

Scharlau

tert-Butyl methyl ether, for GC residue analysis

Scharlau

tert-Butyl methyl ether, GC ultra-trace analysis grade

Scharlau

Toluene, for GC residue analysis

Scharlau

Toluene, GC ultra-trace analysis grade

SOLVENTS, HEAD SPACE GAS CHROMATOGRAPHY

Headspace gas chromatography analyses the volatile solvents in a sample. Therefore, the solvents used in this technique must have a high boiling point and free from any volatile impurities.

1-Methyl-2-pyrrolidone, GC head space 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 ºC): miscible
- Melting point: -24 ºC
- Boiling point: 202 ºC
- Flash pt. 91 ºC
- Ignition temp.: 245 ºC
- Vapour pressure: (20 ºC) 0,32 hPa
- Refraction index: (n 20 ºC/D) 1,4684
- Dielectric const.: (25 ºC) 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. 99,8 %
refractive index n20/D: 1,468 - 1,471
water (K.F.): max. 0,05 %

Packed under inert gas Suitable for residual solvents analysis according to guideline CPMP/ICH/283/95, Ph Eur and USP. Class 1 according to ICH
benzene (G.C.): absence of peak

dichloromethane: 0,6 mg/l
tert-Butyl methyl ether: 1 mg/l
acetone : 1 mg/l
methanol : 1 mg/l
tetrahydrofuran: 0,7 mg/l
n-Hexane: 0,3 mg/l
ethyl acetate: 1 mg/l
ethanol: 1 mg/l
cyclohexane: 1 mg/l
acetonitrile: 0,4 mg/l
2-propanol: 1 mg/l
isopropyl acetate: 1 mg/l
n-Propanol: 1 mg/l
n-Heptane: 1 mg/l
methylcyclohexane: 1 mg/l
1,4-Dioxane: 0,4 mg/l
toluene: 0,9 mg/l
pyridine: 1 mg/l
n-butanol: 1 mg/l
butyl acetate: 1 mg/l
ethylbenzene: 1 mg/l
p-Xylene: 1 mg/l

m-Xylene: 1 mg/l
o-Xylene: 1 mg/l
Other class 2 solvents: max. 10 mg/L
Other class 3 solvents: max. 50 mg/L

Benzyl alcohol, GC head space grade

- Synonyms: Phenylmethanol, Phenylcarbinol
- C7H8O
- M = 108,14 g/mol
- CAS [100-51-6]
- EINECS-No.: 202-859-9
- Density: 1,045 g/cm3
- Solub. in water: (20 ºC): 40 g/l
- Melting point: -15.4 ºC
- Boiling point: 205.3 ºC
- Flash pt. 101 ºC
- Ignition temp.: 436 ºC
- Vapour pressure: (20 ºC) 0,07 hPa
- Refraction index: (n 20 ºC/D) 1,5396
- Dielectric const.: (25 ºC) 13,1
- LD 50 (oral, rat): 1230 mg/kg
- EC-Index-No.: 603-057-00-5
- GHS-signal word: Warning
- GHS-H sentences: H302 - H332 - H319
- GHS-P sentences: P261 - P280 - P321 - P301+P312 - P304+P340 - P501a
- Tariff number: 2906 21 00 00
- Applications: analytical chemistry, perfumery, microscopy.

SPECIFICATIONS
assay (G.C.): min. 99,5 %
identity (IR-spectrum): passes test
colour (Hazen): max. 10
acidity: max. 0,001 meq/g
alkalinity: max. 0,002 meq/g
water : max. 0,05 %

GC / HS Class 1: max. 2 ppm
GC / HS Class 2: max. 10 ppm
GC / HS Class 3: max. 50 ppm

Dimethyl sulfoxide, GC head space grade

- Synonyms: DMSO, Sulfinyl bis(methane), Methylsulfoxide, Methylsulfinylmethane
- C2H6OS
- M = 78,13 g/mol
- CAS [67-68-5]
- EINECS-No.: 200-664-3
- Density: 1,10 g/cm3
- Solub. in water: (20 ºC): miscible
- Melting point: 18,5 ºC
- Boiling point: (33 hPa) 85 - 87 ºC
- Flash pt. 95 ºC
- Ignition temp.: 300 - 302 ºC
- Vapour pressure: (20 ºC) 0,6 hPa
- Refraction index: (n 20 ºC/D) 1,48

- LD 50 (oral, rat): 14500 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P264 - P305+P351+P338 - P321 - P332+P313 - P337+P313
- Tariff number: 2930 90 98 99
- Applications: analytical chemistry, solvents, synthesis of organic products.

SPECIFICATIONS
assay (G.C.): min. 99,9 %
refractive index n20/D: 1,477 - 1,480
water (K.F.): max. 0,04 %

Packed under inert gas Suitable for residual solvents analysis according to guideline CPMP/ICH/283/95, Ph Eur and USP.
benzene (G.C.): absence of peak

dichloromethane: 0,6 mg/l
tert-Butyl methyl ether: 1 mg/l
acetone : 1 mg/l
methanol : 1 mg/l
tetrahydrofuran: 0,7 mg/l
n-Hexane: 0,3 mg/l
ethyl acetate: 1 mg/l
ethanol: 1 mg/l
cyclohexane: 1 mg/l
acetonitrile: 0,4 mg/l
2-propanol: 1 mg/l
isopropyl acetate: 1 mg/l
n-Propanol: 1 mg/l
n-Heptane: 1 mg/l
methylcyclohexane: 1 mg/l
1,4-Dioxane: 0,4 mg/l
toluene: 0,9 mg/l
pyridine: 1 mg/l
n-butanol: 1 mg/l
butyl acetate: 1 mg/l
ethylbenzene: 1 mg/l
p-Xylene: 1 mg/l
m-Xylene: 1 mg/l
o-Xylene: 1 mg/l
Other class 2 solvents: max. 10 mg/L
Other class 3 solvents: max. 50 mg/L

Scharlau

N,N-Dimethylacetamide, GC head space grade

- Synonyms: Acetic acid dimethylamide
- C4H9NO
- M = 87,12 g/mol
- CAS [127-19-5]
- EINECS-No.: 204-826-4
- Density: 0,94 g/cm3
- Solub. in water: (20 ºC): miscible
- Melting point: -20 ºC
- Boiling point: 165 -166 ºC
- Flash pt. 64 ºC
- Ignition temp.: 320 ºC
- Vapour pressure: (20 ºC) 1,76 hPa
- Refraction index: (n 20 ºC/D) 1,4230
- Dielectric const.: (25 ºC) 37,8
- LD 50 (oral, rat): 4300 mg/kg

- EC-Index-No.: 616-011-00-4
- GHS-signal word: Danger
- GHS-H sentences: H312+H332 - H360D
- GHS-P sentences: P261 - P280 - P321 - P304+P340 - P405 - P501a
- Tariff number: 2924 19 00 90
- Applications: laboratory reagent, solvents (synthesis of organic products).

SPECIFICATIONS
assay (G.C.): min. 99,9 %
refractive index n20/D: 1,438 - 1,439
water (K.F.): max. 0,03 %

Packed under inert gas Suitable for residual solvents analysis according to guideline CPMP/ICH/283/95, Ph Eur and USP.
benzene (G.C.): absence of peak

dichloromethane: 0,6 mg/l
tert-Butyl methyl ether: 1 mg/l
acetone : 1 mg/l
methanol : 1 mg/l
tetrahydrofuran: 0,7 mg/l
n-Hexane: 0,3 mg/l
ethyl acetate: 1 mg/l
ethanol: 1 mg/l
cyclohexane: 1 mg/l
acetonitrile: 0,4 mg/l
2-propanol: 1 mg/l
isopropyl acetate: 1 mg/l
n-Propanol: 1 mg/l
n-Heptane: 1 mg/l
methylcyclohexane: 1 mg/l
1,4-Dioxane: 0,4 mg/l
toluene: 0,9 mg/l
pyridine: 1 mg/l
n-butanol: 1 mg/l
butyl acetate: 1 mg/l
ethylbenzene: 1 mg/l
p-Xylene: 1 mg/l
m-Xylene: 1 mg/l
o-Xylene: 1 mg/l
DMF: max. 20 mg/l
Other class 2 solvents: max. 10 mg/L
Other class 3 solvents: max. 50 mg/L

Scharlau

N,N-Dimethylformamide, GC head space grade

Scharlau

Water, GC head space grade

SOLVENTS, HPLC

HPLC separates, identifies and quantifies the components in a sample based on their interaction with the mobile and stationary phases. The solvents used in HPLC must have the right qualities for use as the mobile phase.

Scharlau

1,2,4-Trichlorobenzene, HPLC grade

Scharlau

1-Butanol, HPLC grade

Scharlau

1-Chlorobutane, HPLC grade

Scharlau

1-Propanol, HPLC grade

2,2,4-Trimethylpentane, HPLC grade

2-Propanol, gradient HPLC grade

Acetonitrile, gradient 240nm/ far UV HPLC grade

Acetonitrile, HPLC gradient grade

Acetonitrile, supragradient HPLC grade, Reag. Ph. Eur. Methyl cyanide, Cyanomethane

Acetonitrile, UHPLC-MS

Chloroform, HPLC grade, stabilized with amylene (approx. 150 ppm)

Scharlau

Dichloromethane, HPLC grade, stabilized with ethanol

Scharlau

Dimethyl sulfoxide, HPLC grade

Scharlau

Ethanol absolute, gradient HPLC grade

Scharlau

Isooctanol, HPLC grade

Scharlau

Methanol, for HPLC 'Supragradient', Reag Ph Eur, Methyl Alcohol, Carbinol, Wood Alcohol

Scharlau

Methanol, for UHPLC Ultragradient

Scharlau

Methanol, HPLC grade

Methanol, UHPLC-MS

N,N-Dimethylacetamide, HPLC grade

n-Heptane, 99%, HPLC grade

n-Hexane, 96%, HPLC grade

n-Hexane, 99%, HPLC grade

n-Pentane, 99%, HPLC grade

tert-Butyl methyl ether, HPLC grade

- Synonyms: Methyl tert-butyl ether, MTBE
- C5H12O
- M = 88,15 g/mol
- CAS [1634-04-4]
- EINECS-No.: 216-653-1
- Density: 0,74 g/cm3

- Solub. in water: (10 ºC): ~ 26 g/l
- Melting point: -110 ºC
- Boiling point: 55 ºC
- Flash pt. -28 ºC
- Ignition temp.: 460 ºC
- Vapour pressure: (20 ºC) 268 hPa
- Refraction index: (25 ºC) 1,3664
- LD 50 (oral, rat): 3870 mg/kg
- ADR: 3 F1 II UN 2398
- IMDG: 3 II UN 2398
- IATA/ICAO: 3 II UN 2398
- GHS-signal word: Danger
- GHS-H sentences: H225 - H315
- GHS-P sentences: P210 - P241 - P303+P361+P353 - P370+P378 - P405 - P501a
- Tariff number: 2909 19 90 00
- Applications: analytical chemistry, laboratory reagent, chromatography, solvents, as gasoline additive.
- Appearance: Colourless clear liquid

SPECIFICATIONS
assay (G.C.): min. 99,8 %
identity (IR-spectrum): passes test
density (20º/4º): 0,740 - 0,742
acidity: max. 0,0002 meq/g
alkalinity: max. 0,0002 meq/g
residue on evaporation: max. 0,0002 %
water (K.F.): max. 0,02 %

wavelength:: T(%) A (AU)
240 nm: 50 % 0,301 AU
255 nm: 80 % 0,097 AU
280 nm: 98 % 0,009 AU

Microfiltered through membranes of pore diameter 0,22 µm

Scharlau

Tetrahydrofuran, HPLC grade, without stabilizer

- Synonyms: THF, Tetramethylene oxide, Oxolane
- C4H8O
- M = 72,11 g/mol
- CAS [109-99-9]
- EINECS-No.: 203-726-8
- Density: 0,89 g/cm3
- Solub. in water: (20 ºC): miscible
- Melting point: -108,5 ºC
- Boiling point: 65 - 66 ºC
- Flash pt. -21,5 ºC
- Ignition temp.: 215 ºC
- Vapour pressure: (20ºC) 173 hPa
- Refraction index: (n 20 ºC/D) 1,407
- Dielectric const.: (20 ºC) 7,4
- LD 50 (oral, rat): 1650 mg/kg
- EC-Index-No.: 603-025-00-0
- ADR: 3 F1 II UN 2056
- IMDG: 3 II UN 2056
- IATA/ICAO: 3 II UN 2056
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - H351 - H335 - -
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P405 - P501a

- Tariff number: 2932 11 00 00
- Applications: solvents, synthesis of polymers, synthesis of organic products, for organometallic compounds synthesizing, for histology.

SPECIFICATIONS
assay (G.C.): min. 99,9 %
identity (IR-spectrum): passes test
density (20º/4º): 0,887 - 0,889
acidity: max. 0,0002 meq/g
alkalinity: max. 0,0002 meq/g
peroxides (as H2O2): max. 0,02 %
residue on evaporation: max. 0,0001 %
water (K.F.): max. 0,02 %

wavelength:: T(%) A (AU)
230 nm: 35 % 0,456 AU
243 nm: 50 % 0,301 AU
273 nm: 90 % 0,046 AU

Microfiltered through membranes of pore diameter 0,22 µm

Scharlau

Water, gradient HPLC grade

- H2O
- M = 18,02 g/mol
- CAS [7732-18-5]
- EINECS-No.: 231-791-2
- Density: 1,00 g/cm3
- Melting point: 0 ºC
- Boiling point: 100 ºC
- Vapour pressure: (20 ºC) 23 hPa
- Dielectric const.: (20 ºC) 80,2
- Tariff number: 2853 00 10 00
- Applications: solvents, analytical chemistry.

SPECIFICATIONS
chlorides (Cl): max. 0,00002 %
nitrates (NO3): max. 0,00003 %
sulfates (SO4): max. 0,0001 %
residue on evaporation: max. 0,0001 %
lead (Pb): max. 0,1 ppm
gradient elution: maximum absorption of
at 210 nm: 0,01 AU
at 254 nm: 0,001 AU

Microfiltered through membranes of pore diameter 0,22 µm

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
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