

Стандарты для газовой хроматографии

Технические характеристики

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STANDARDS FOR GC



Gas Chromatography standards are reference substances used to calibrate and validate GC instruments. These compounds are injected into the GC system to establish precise reference points in the analysis. Standards facilitate the identification and quantification of unknown analytes in samples. They can include mixtures of specific chemical compounds or standards of known concentration. The quality and traceability of standards are essential to ensure the accuracy and reproducibility of results in gas chromatography analysis.



1,2,3,4-Tetrahydronaphthalene, standard substance for GC

- Synonyms: Glycoethylether, 1,4-Diethylene dioxide, 1,4-Dioxacyclohexane
- $C_4H_8O_2$
- $M = 88,11 \text{ g/mol}$
- CAS [123-91-1]
- EINECS-No.: 204-661-8
- Density: $1,03 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: 12 °C
- Boiling point: 101,5 °C
- Flash pt. 11 °C
- Ignition temp.: 300 °C
- Vapour pressure: (20 °C) 41 hPa
- Dielectric const.: (25 °C) 2,2
- LD 50 (oral, rat): 5200 mg/kg
- EC-Index-No.: 603-024-00-5
- ADR: 3 F1 II UN 1165
- IMDG: 3 II UN 1165
- IATA/ICAO: 3 II UN 1165

- GHS-signal word: Danger
- GHS-H sentences: H225 - H351 - H319 - H335 - EUH019 - EUH066
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P405 - P501a
- Tariff number: 2932 99 00 90
- Applications: solvents, analytical chemistry.

SPECIFICATIONS

assay: 99,9%

over ramp: 40°C, 5°C/min 120°C, 30°C/min 200 °C

identity: IR

Volume

x 5 ml

Reference

[DI12980005](#)

Packaging

x 5 ml :: Glass bottle



1,2-Dichloroethane, standard substance for GC

- Synonyms: Ethylene chloride, Ethylene dichloride
- C₂H₄Cl₂
- M = 98,97 g/mol
- CAS [107-06-2]
- EINECS-No.: 203-458-1
- Density: 1,25 g/cm³
- Solub. in water: (20 °C): 0,80 g/l
- Melting point: -35,5 °C
- Boiling point: 83,5 - 84,1 °C
- Flash pt. 13 °C
- Ignition temp.: 412,6 - 440 °C
- Vapour pressure: (20 °C) 87 hPa
- LD 50 (oral, rat): 670 mg/kg
- EC-Index-No.: 602-012-00-7
- ADR: 3 FT1 II UN 1184
- IMDG: 3 II UN 1184
- IATA/ICAO: 3 II UN 1184
- GHS-signal word: Danger
- GHS-H sentences: H225 - H350 - H302 - H315 - H319 - H335 -
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P370+P378 - P405 - P501a
- Tariff number: 2903 15 00 00
- Applications: solvents, synthesis of organic products, fumigant.

SPECIFICATIONS

assay: 99,9%

over ramp: 40°C, 5°C/min 120°C, 30°C/min 200 °C

identity: IR

Volume

x 5 ml

Reference

[DI04120005](#)

Packaging

x 5 ml :: Glass bottle



1,4-Dioxane, standard substance for GC



1-Butanol, standard substance for GC

- Synonyms: n-Butyl alcohol, Propylcarbinol
- C₄H₁₀O
- M = 74,12 g/mol
- CAS [71-36-3]
- EINECS-No.: 200-751-6
- Density: 0,81 g/cm³
- Solub. in water: (20 °C): 79 g/l
- Melting point: -89,5 °C
- Boiling point: 118 °C
- Flash pt. 34 °C
- Ignition temp.: 340 °C
- Vapour pressure: (20 °C) 6,7 hPa
- Refraction index: (n 20 °C/D) 1,3993
- Dielectric const.: (20 °C) 17,8
- LD 50 (oral, rat): 790 mg/kg
- EC-Index-No.: 603-004-00-6 [1]
- ADR: 3 F1 III UN 1120
- IMDG: 3 III UN 1120
- IATA/ICAO: 3 III UN 1120
- GHS-signal word: Danger
- GHS-H sentences: H318 - H226 - H302 - H335 - H336 - H315
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P310 - P370+P378 - P405 - P501a
- Tariff number: 2905 13 00 00
- Applications: solvents, synthesis of organic products, microscopy.
- Appearance: Incolore

SPECIFICATIONS

assay: 99,8%

over ramp: 60°C, 6°C/min 160°C, 20°C/min 220°C

identity: IR

Volume

x 5 ml

Reference

[AL01710005](#)

Packaging

x 5 ml :: Glass bottle



1-Methyl-2-Pyrrolidone, standard substance for GC

- 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: 99,8%

over ramp: 80°C, 7°C/min 220°C

identity: IR



1-Propanol, standard substance for GC

- Synonyms: n-Propyl alcohol, Ethylcarbinol, 1-Hydroxypropane, n-Propanol
- C₃H₈O
- M = 60,10 g/mol
- CAS [71-23-8]
- EINECS-No.: 200-746-9
- Density: 0,80 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -127 °C
- Boiling point: 96,5 - 98 °C
- Flash pt. 15 °C
- Ignition temp.: 405 °C
- Vapour pressure: (20 °C) 19 hPa
- Dielectric const.: (25 °C) 20,1
- LD 50 (oral, rat): 1870 mg/kg
- EC-Index-No.: 603-003-00-0
- ADR: 3 F1 II UN 1274
- IMDG: 3 II UN 1274
- IATA/ICAO: 3 II UN 1274
- GHS-signal word: Danger
- GHS-H sentences: H225 - H318 - H336
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P310 - P370+P378 - P405 - P501a
- Tariff number: 2905 12 00 00
- Applications: analytical chemistry, solvents.

SPECIFICATIONS

assay: 99,8%

over ramp: 40°C, 5°C/min 120°C, 30°C/min 200 °C

identity: IR



2-Propanol, standard substance for GC

- 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: 99,9%

over ramp: 40°C , 5°C/min 120°C , 30°C/min 200°C

identity: IR



Acetonitrile, standard substance for GC

- Synonyms: Methyl cyanide, Cyanomethane
- CH_3CN
- $M = 41,05 \text{ g/mol}$
- CAS [75-05-8]
- EINECS-No.: 200-835-2
- Density: $0,786 \text{ g/cm}^3$
- Solub. in water: (20°C): miscible
- Melting point: $-45,7^\circ\text{C}$
- Boiling point: $81,6^\circ\text{C}$
- Flash pt. 2°C
- Ignition temp.: 524°C
- Vapour pressure: (20°C) 97 hPa
- Refraction index: ($n_{20^\circ\text{C}}$) $1,3442$
- Dielectric const.: (20°C) $37,5$
- LD 50 (oral, rat): $2730 - 3800 \text{ mg/kg}$
- 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: 99,9%

over ramp: 50 °C, 10°C/min 200 °C

identity: IR



Anisole, standard substance for GC

- Synonyms: Methoxybenzene, Methyl phenyl ether
- C₇H₈O
- M = 108,14 g/mol
- CAS [100-66-3]
- EINECS-No.: 202-876-1
- Density: 0,99 g/cm³
- Solub. in water: (20 °C): 1,5 - 1,7 g/l
- Melting point: -37 °C
- Boiling point: 156 °C
- Flash pt. 44 °C
- Ignition temp.: 475 °C
- Vapour pressure: (20 °C) 3,5 hPa
- Refraction index: (n 20 °C/D) 1,5168
- Dielectric const.: (25 °C) 4,3
- LD 50 (oral, rat): 3700 mg/kg
- ADR: 3 F1 III UN 2222
- IMDG: 3 III UN 2222
- IATA/ICAO: 3 III UN 2222
- GHS-signal word: Warning
- GHS-H sentences: H226
- GHS-P sentences: P210 - P241 - P303+P361+P353 - P370+P378 - P403+P235 - P501a
- Tariff number: 2909 30 90 90
- Applications: perfumery, synthesis of organic products.

SPECIFICATIONS

assay: 99,9%

over ramp: 60°C, 6°C/min 160°C, 20°C/min 220°C

identity: IR



Benzene, standard substance for GC

- Synonyms: Cyclohexatriene
- C₆H₆
- M = 78,11 g/mol
- CAS [71-43-2]
- EINECS-No.: 200-753-7
- Density: 0,88 g/cm³
- Solub. in water: (20 °C): 1,77 g/l
- Melting point: 5,5 °C
- Boiling point: 80,1 °C
- Flash pt. -11 °C
- Ignition temp.: 555 °C
- Vapour pressure: (20 °C) 101 hPa
- Refraction index: (n 20 °C/D) 1,5011
- Dielectric const.: (20 °C) 2,3
- LD 50 (oral, rat): 930 mg/kg
- EC-Index-No.: 601-020-00-8
- ADR: 3 F1 II UN 1114
- IMDG: 3 II UN 1114

- IATA/ICAO: 3 II UN 1114
- GHS-signal word: Danger
- GHS-H sentences: H225 - H340 - H350 - H372 - H304 - H315 - H319
- GHS-P sentences: P210 - P301+P310 - P303+P361+P353 - P305+P351+P338 - P370+P378
- P405 - P501a
- Tariff number: 2902 20 00 00
- Applications: synthesis of organic products, for pharmaceutical use, manufacture of dyes, manufacturing of lacquers, analytical chemistry, solvent for fat and oil extractions.

SPECIFICATIONS

assay: 99,8%

over ramp: 40°C, 5°C/min 120°C, 30°C/min 200 °C

identity: IR



Chlorobenzene, standard substance for GC

- Synonyms: Monochlorobenzene, Benzene chloride, Phenyl chloride
- C₆H₅Cl
- M = 112,56 g/mol
- CAS [108-90-7]
- EINECS-No.: 203-628-5
- Density: 1,11 g/cm³
- Solub. in water: (20 °C): 0,5 g/l
- Melting point: -45 °C
- Boiling point: 132 °C
- Flash pt. 29 °C
- Ignition temp.: 590 °C
- Vapour pressure: (20 °C) 12 hPa
- Refraction index: (n 20 °C/D) 1,5248
- Dielectric const.: (25 °C) 5,6
- LD 50 (oral, rat): 1100 mg/kg
- EC-Index-No.: 602-033-00-1
- ADR: 3 F1 III UN 1134
- IMDG: 3 III UN 1134
- IATA/ICAO: 3 III UN 1134
- GHS-signal word: Warning
- GHS-H sentences: H226 - H332 - H411
- GHS-P sentences: P210 - P241 - P303+P361+P353 - P370+P378 - P403+P235 - P501a
- Tariff number: 2903 91 00 00
- Applications: laboratory reagent, synthesis of organic products, solvents (painting).

SPECIFICATIONS

assay: 99,9%

over ramp: 40°C, 5°C/min 120°C, 30°C/min 200 °C

identity: IR



Chloroform, standard substance for GC

Gas Chromatography standards are reference substances used to calibrate and validate GC instruments. These compounds are injected into the GC system to establish precise reference points in the analysis. Standards facilitate the identification and quantification of unknown analytes in samples. They can include mixtures of specific chemical compounds or standards of known concentration. The quality and traceability of standards are essential to ensure the accuracy and reproducibility of results in gas chromatography analysis.



Cyclohexane, standard substance for GC

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Dichloromethane, standard substance for GC

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Diethyl ether, standard substance for GC

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Dimethyl sulfoxide, standard substance for GC

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Ethanol, standard substance for GC

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Ethyl acetate, standard substance for GC

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Ethyl Benzene, standard substance for GC

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Ethyl methyl ketone, standard substance for GC



Ethylene glycol monoethyl ether, standard substance for GC



Heptane, standard substance for GC



Hexane, standard substance for GC



Isobutanol, standard substance for GC



Isobutyl Acetate, standard substance for GC



Methanol, standard substance for GC



Methyl acetate, standard substance for GC



N,N-Dimethylacetamide, standard substance for GC



N,N-Dimethylformamide, standard substance for GC



n-Amyl alcohol, standard substance for GC



n-Butyl acetate, standard substance for GC



o-Xylene, standard substance for GC



Pentane, standard substance for GC



Pyridine, standard substance for GC



Tert-Butyl methyl ether, standard substance for GC



Tetrahydrofuran, standard substance for GC



Toluene, standard substance for GC

STANDARDS, AAS



Atomic absorption spectroscopy standards are solutions with known concentrations of specific chemical elements. They are used to establish the relationship between the amount of light absorbed by an element and its concentration in an unknown sample. Atomic absorption standards are essential to quantify the presence of elements in analytical samples, such as water, food and industrial products. In addition, they ensure accurate, reliable results in the qualitative and quantitative analysis of trace elements in various scientific and quality control applications.



**Aluminium, standard solution 1000 mg/l Al for AA
(aluminium nitrate nonahydrate in nitric acid 0,5 mol/l)**



**Antimony, standard solution 1000 mg/l Sb for AA
(antimony(III) chloride in hydrochloric acid 5 mol/l)**



Arsenic, standard solution 1000 mg/l As for AA
(arsenic(III) oxide in nitric acid 0,5 mol/l)



Barium, standard solution 1000 mg/l Ba for AA (barium nitrate in nitric acid 0,5 mol/l)



Bismuth, standard solution 1000 mg/l Bi for AA
(bismuth(III) nitrate in nitric acid 0,5 mol/l)



Boron, standard solution 1000 mg/l B for AA (boric acid in water)



Cadmium, standard solution 1000 mg/l Cd for AA
(cadmium nitrate in nitric acid 0,5 mol/l)



Calcium, standard solution 1000 mg/l Ca for AA (calcium nitrate in nitric acid 0,5 mol/l)



Chromium, standard solution 1000 mg/l Cr for AA
(chromium(III) nitrate in nitric acid 0,5 mol/l)



Cobalt, standard solution 1000 mg/l Co for AA (cobalt nitrate in nitric acid 0,5 mol/l)



Copper, standard solution 1000 mg/l Cu for AA (copper(II) nitrate in nitric acid 0,5 mol/l)



Gold, standard solution 1000 mg/l Au for AA (Gold(III) trichloride acid in hydrochloric acid 2 mol/l)



Iron, standard solution 1000 mg/l Fe for AA (iron(III) nitrate nonahydrate in nitric acid 0,5 mol/l)



Lead, standard solution 1000 mg/l Pb for AA (lead(II) nitrate in nitric acid 0,5 mol/l)



Lithium, standard solution 1000 mg/l Li for AA (lithium nitrate in nitric acid 0,5 mol/l)



Magnesium, standard solution 1000 mg/l Mg for AA
(magnesium nitrate in nitric acid 0,5 mol/l)



Manganese, standard solution 1000 mg/l Mn for AA
(manganese nitrate in nitric acid 0,5 mol/l)



Mercury, standard solution 1000 mg/l Hg for AA
(mercury(II) nitrate monohydrate in nitric acid 2 mol/l)



Molybdenum, standard solution 1000 mg/l Mo for AA
(ammonium heptamolybdate in water)



Nickel, standard solution 1000 mg/l Ni for AA (nickel(II)
nitrate in nitric acid 0,5 mol/l)



Potassium, standard solution 1000 mg/l K for AA
(potassium nitrate in nitric acid 0,5 mol/l)



Selenium, standard solution 1000 mg/l Se for AA
(selenium dioxide in nitric acid 0,5 mol/l)



Silicon, standard solution 1000 mg/l Si for AA (ammonium hexafluorosilicate in water)



Silver, standard solution 1000 mg/l Ag for AA (silver nitrate in nitric acid 0,5 mol/l)



Sodium, standard solution 1000 mg/l Na for AA (sodium nitrate in nitric acid 0,5 mol/l)



Strontium, standard solution 1000 mg/l Sr for AA
(strontium nitrate in nitric acid 0,5 mol/l)



Tin, standard solution 1000 mg/l Sn for AA (tin(IV) chloride in hydrochloric acid 5 mol/l)



Titanium, standard solution 1000 mg/l Ti for AA
(titanium(IV) chloride in hydrochloric acid 5 mol/l)



**Tungsten, standard solution 1000 mg/l W for AA
(ammonium tungstate in water)**



**Vanadium, standard solution 1000 mg/l V for AA
(ammonium monovanadate in nitric acid 0,5 mol/l)**



**Zinc, standard solution 1000 mg/l Zn for AA (zinc nitrate in
nitric acid 0,5 mol/l)**

STANDARDS, CONDUCTIVITY



Conductivity is a measure of a material's capacity to allow the passage of electrical current through it. Conductivity measurements are routinely used in many industrial and environmental applications as a fast, inexpensive and

reliable method of measuring ionic content in a solution, especially in water quality control. The correct calibration of the cell constant is vital for reliable, reproducible and accurate results.



Conductivity standard, 12880 $\mu\text{S}/\text{cm}$ (25 °C), KCl 0,1 mol/l



Conductivity standard, 1413 $\mu\text{S}/\text{cm}$ (25 °C), KCl 0,01 mol/l



Conductivity standard, 147 $\mu\text{S}/\text{cm}$ (25 °C), KCl 0,001 mol/l



Conductivity standard, 50000 $\mu\text{S}/\text{cm}$ (25 °C), KCl aqueous solution



Conductivity standard, 84 $\mu\text{S}/\text{cm}$ (25°C), KCl 0,0006 mol/L

STANDARDS, ICP MULTIELEMENT



Multi-element ICP Standards are standards used in inductively coupled plasma mass spectrometry for the accurate determination of multiple elements in samples.



ICP multiement calibration standard solution, 16 elements in HNO₃ 10%



ICP multiement calibration standard solution, 26 elements in HNO₃ 5%



ICP multiement calibration standard solution, 4 elements in HCl 1%



ICP multielement calibration standard solution, 9 elements in HNO₃ 5%



Tuning ICP solution, 4 components 10 mg/l in HNO₃ 2%



Tuning ICP solution, 7 components 1 mg/l in HNO₃ 2%;
HCl 0,5%



Tuning ICP solution, 9 components 10 mg/l in HNO₃ 2%

STANDARDS, ICP SINGLE ELEMENT



Single element ICP standards are standards used in inductively coupled plasma mass spectrometry for the accurate determination of individual elements in samples.



Aluminium, standard solution 1000 mg/l for ICP (Al in HNO₃ 2%)



Aluminum, standard solution 10000 mg/l for ICP (Al in HNO₃ 2%)



Ammonium, standard solution 1 mg/l NH₄⁺ for IC in H₂O



Antimony, standard solution 1000 mg/l for ICP (Sb in HCl 20%)



Antimony, standard solution 1000 mg/l for ICP/MS (Sb in HNO₃ 2%, HF 0,5%)



Antimony, standard solution 10000 mg/l for ICP (Sb in HCl 2%)



Arsenic, standard solution 1000 mg/l for ICP (As_2O_3 in HNO_3 2%)



Arsenic, standard solution 10000 mg/l for ICP (As in HNO_3 2%)



Barium, standard solution 1000 mg/l for ICP ($\text{Ba}(\text{NO}_3)_2$ in HNO_3 2%)



Barium, standard solution 10000 mg/l for ICP (Ba in HNO_3 2%)



Beryllium, standard solution 1000 mg/l for ICP ($\text{Be}_4\text{O}(\text{C}_2\text{H}_3\text{O}_2)_6$ in HCl 2%)



Beryllium, standard solution 10000 mg/l for ICP (Be in HNO_3 2%)



Bismuth, standard solution 1000 mg/l for ICP (Bi in HNO₃ 5%)



Bismuth, standard solution 10000 mg/l for ICP (Bi in HNO₃ 2%)



Boron, standard solution 1000 mg/l for ICP (B in HNO₃ 2%)



Boron, standard solution 1000 mg/l for ICP (H₃BO₃ in H₂O)



Boron, standard solution 10000 mg/l for ICP (B in H₂O)



Cadmium, standard solution 1000 mg/l for ICP (Cd in HNO₃ 2%)



Cadmium, standard solution 10000 mg/l for ICP (Cd in HNO₃ 2%)



Calcium, standard solution 1000 mg/l for ICP (Ca in HNO₃ 2%)



Calcium, standard solution 1000 mg/l for ICP (CaCO₃ in HNO₃ 2%)



Calcium, standard solution 10000 mg/l Ca for IC (Ca in H₂O)



Calcium, standard solution 10000 mg/l for ICP (Ca in HNO₃ 2%)



Calcium, standard solution 10000 mg/l for ICP (CaCO₃ in HNO₃ 2%)



Cerium, standard solution 1000 mg/l for ICP (Ce(NO₃)₃ in HNO₃ 2%)



Cerium, standard solution 10000 mg/l for ICP (Ce in HNO₃ 2%)



Cesium, standard solution 1000 mg/l for ICP (CsNO₃ in H₂O)



Cesium, standard solution 10000 mg/l for ICP (Cs in HNO₃ 2%)



Chlorates, standard solution 1000 mg/l for IC (ClO₃⁻ in H₂O)



Chloride, standard solution 10000 mg/l Cl⁻ (NaCl in H₂O)



Chromium, standard solution 1000 mg/l for ICP (Cr(NO₃)₃ in HNO₃ 2%)



Chromium, standard solution 10000 mg/l for ICP (Cr in HNO₃ 2%)



Cobalt, standard solution 1000 mg/l for ICP (Co in HNO₃ 2%)



Cobalt, standard solution 10000 mg/l for ICP (Co in HNO₃ 2%)



Copper, standard solution 1000 mg/l for ICP (Cu in HNO₃ 2%)



Copper, standard solution 10000 mg/l Cu for ICP in HNO₃ 5%



Dysprosium, standard solution 1000 mg/l for ICP (Dy₂O₃ in HNO₃ 2%)



Dysprosium, standard solution 10000 mg/l for ICP (Dy in HNO₃ 2%)



Erbium, standard solution 1000 mg/l for ICP (Er_2O_3 in HNO_3 2%)



Erbium, standard solution 10000 mg/l for IC for ICP (Er in HNO_3 2%)



Europium, standard solution 1000 mg/l for ICP (Eu_2O_3 in HNO_3 2%)



Europium, standard solution 10000 mg/l for ICP (Eu in HNO_3 2%)



Gadolinium, standard solution 1000 mg/l for ICP (Gd_2O_3 in HNO_3 2%)



Gadolinium, standard solution 10000 mg/l for ICP (Gd in HNO_3 2%)



Gallium, standard solution 1000 mg/l for ICP (Ga in HNO₃ 2%)



Gallium, standard solution 10000 mg/l for ICP (Ga in HNO₃ 2%)



Germanium, standard solution 1000 mg/l for ICP (Ge in HNO₃ 2%, HF 2%)



Germanium, standard solution 1000 mg/l for ICP (Ge in HNO₃ 5% + HF 1%)



Germanium, standard solution 10000 mg/l for ICP (Ge in HNO₃ 2%)



Gold, standard solution 1000 mg/l for ICP (Au in HCl 2%)



Gold, standard solution 10000 mg/l for ICP (Au in HCl 2%)



Hafnium, standard solution 1000 mg/l for ICP (HfO₂ in HNO₃ 2% + HF 1%)



Hafnium, standard solution 10000 mg/l for ICP (Hf in HNO₃ 2%)



Holmium, standard solution 1000 mg/l for ICP (holmium(III) oxide in HNO₃ 2%)



Holmium, standard solution 10000 mg/l for ICP (Ho in HNO₃ 2%)



ICP-MS monoelemental - Arsenic 1000 mg/l in HNO₃ 2%



ICP-MS monoelemental - Iridium 100 mg/l in HCl 2% (IrCl₃ 99.99%)



ICP-MS monoelemental - Phosphorus 10000 mg/l in H₂O



ICP-MS monoelemental - Selenium 1000 mg/l in HNO₃ 2%



ICP-MS monoelemental - Tin 10000 mg/l en HNO₃/ HF



ICP-MS monoelemental - Uranium 10 mg/l en HNO₃
(UO₂(OOCCH₃)₂ 99.99%)



Indium, standard solution 1000 mg/l for ICP (In in HNO₃ 2%)



Indium, standard solution 10000 mg/l for ICP (In in HNO₃ 2%)



Iodine, standard solution 1000 mg/l I₂ for ICP in H₂O



Iridium, standard solution 1000 mg/l for ICP (IrCl_3 in HCl 10%)



Iridium, standard solution 1000 mg/l for ICP/MS (Ir in HCl 10%)



Iridium, standard solution 10000 mg/l for ICP (Ir in HCl 2%)



Iron, standard solution 1000 mg/l for ICP (Fe in HNO_3 2%)



Iron, standard solution 10000 mg/l for ICP (Fe in HNO_3 5%)



Lanthanum, standard solution 1000 mg/l for ICP (La_2O_3 in HNO_3 2%)



Lanthanum, standard solution 10000 mg/l for ICP (La in HNO_3 2%)



Lead, standard solution 1000 mg/l for ICP ($\text{Pb}(\text{NO}_3)_2$ in HNO_3 2%)



Lead, standard solution 10000 mg/l for ICP (Pb in HNO_3 2%)



Lithium, standard solution 1000 mg/l for ICP (Li_2CO_3 in HNO_3 2%)



Lithium, standard solution 10000 mg/l for ICP (Li in HNO_3 2%)



Lutetium, standard solution 1000 mg/l for ICP (Lu_2O_3 in HNO_3 2%)



Lutetium, standard solution 10000 mg/l for ICP (Lu in HNO_3 2%)



Magnesium, standard solution 1000 mg/l for ICP (Mg in HNO₃ 2%)



Magnesium, standard solution 1000 mg/l for ICP (Mg(NO₃)₂ in HNO₃ 2%)



Magnesium, standard solution 10000 mg/l for ICP (Mg(NO₃)₂ in HNO₃ 2%)



Manganese, standard solution 1000 mg/l for ICP (Mn in HNO₃ 2%)



Manganese, standard solution 10000 mg/l for ICP (Mn in HNO₃ 2%)



Mercury, standard solution 1 mg/l Hg for ICP in HNO₃ 5%



Mercury, standard solution 1000 mg/l for ICP (Hg in HCl 20%)



Mercury, standard solution 1000 mg/l for ICP (Hg in HNO₃ 5%)



Mercury, standard solution 1000 mg/l for ICP (HgO in HNO₃ 10%)



Mercury, standard solution 10000 mg/l for ICP (Hg in HNO₃ 2%)



Mercury, standard solution 2 µg/l in HNO₃ 5%



Molybdenum, standard solution 1000 mg/l for ICP (Mo in HNO₃ 2%, HF 0,5%)



Molybdenum, standard solution 1000 mg/l for ICP (MoO₃ in NH₃ 4%)



Molybdenum, standard solution 10000 mg/l for ICP (Mo in HNO₃ 2%)



Neodymium, standard solution 1000 mg/l for ICP (Nd₂O₃ in HNO₃ 2%)



Neodymium, standard solution 10000 mg/l for ICP (Nd in HNO₃ 2%)



Nickel, standard solution 1000 mg/l for ICP (Ni in HNO₃ 2%)



Nickel, standard solution 10000 mg/l for ICP (Ni in HNO₃ 2%)



Niobium, standard solution 1000 mg/l for ICP (Nb in HNO₃ 5% + HF 1%)



Niobium, standard solution 10000 mg/l for ICP (Nb in HNO₃ 2%)



Osmium, standard solution 1000 mg/l for ICP (OsCl₃ in HCl 2%)



Palladium, standard solution 1000 mg/l for ICP (Pd in HCl 5%)



Palladium, standard solution 1000 mg/l Pd for ICP in HCl 5%



Palladium, standard solution 10000 mg/l for ICP (Pd in HNO₃ 2%)



Phosphorus, standard solution 1000 mg/l for ICP (NH₄H₂PO₄ in H₂SO₄ 0,05%)



Phosphorus, standard solution 1000 mg/l for ICP (P in HNO₃ 2%)



Phosphorus, standard solution 1000 mg/l for ICP/MS (P in H₂O)



Phosphorus, standard solution 10000 mg/l for ICP (P in H₂O)



Platinum, standard solution 1000 mg/l for ICP (Pt in HCl 10%)



Platinum, standard solution 10000 mg/l for ICP (Pt in HCl 2%)



Potassium, standard solution 1000 mg/l for ICP (KNO₃ in H₂O)



Potassium, standard solution 1000 mg/l for ICP/MS (K in HNO₃ 2%)



Potassium, standard solution 10000 mg/l for IC (K in H₂O)



Potassium, standard solution 10000 mg/l for ICP (KNO₃ in HNO₃ 2%)



Potassium, standard solution 50000 mg/l for ICP (K in HNO₃ 5%)



Praseodymium, standard solution 1000 mg/l Pr for ICP (Pr in HNO₃ 2%)



Praseodymium, standard solution 10000 mg/l for ICP (Pr in HNO₃ 2%)



Rhenium, standard solution 1000 mg/l for ICP (Re in H₂O)



Rhenium, standard solution 10000 mg/l for ICP (Re in H₂O)



Rhodium, standard solution 1000 mg/l for ICP (RhCl₃ in HCl 5%)



Rhodium, standard solution 1000 mg/l for ICP/MS (Rh in HCl 2%)



Rubidium, standard solution 1000 mg/l for ICP (RbNO₃ in H₂O)



Rubidium, standard solution 10000 mg/l for ICP (Rb in H₂O)



Ruthenium, standard solution 1000 mg/l for ICP (RuCl₃ in HCl 5%)



Ruthenium, standard solution 10000 mg/l for ICP (Ru in HCl 2%)



Samarium, standard solution 1000 mg/l for ICP (Sm₂O₃ in HNO₃ 2%)



Samarium, standard solution 10000 mg/l for ICP (Sm in HNO₃ 2%)



Scandium, standard solution 1000 mg/l for ICP (Sc in HNO₃ 2%)



Scandium, standard solution 1000 mg/l for ICP (Sc₂O₃ in HNO₃ 2%)



Scandium, standard solution 10000 mg/l for ICP (Sc in HNO₃ 2%)



Selenium, standard solution 1000 mg/l for ICP (Se in HNO₃ 2%)



Selenium, standard solution 10000 mg/l for ICP (Se in HNO₃ 2%)



Silicon, standard solution 1000 mg/l for ICP ((NH₄)₂SiF₆ in H₂O)



Silicon, standard solution 1000 mg/l for ICP/MS (Si in H₂O)



Silicon, standard solution 10000 mg/l for ICP (Si in H₂O)



Silver, standard solution 1000 mg/l for ICP (AgNO₃ in HNO₃ 2%)



Silver, standard solution 10000 mg/l for ICP (Ag in HNO₃ 2%)



Sodium, standard solution 1000 mg/l for ICP (Na in HNO₃ 2%)



Sodium, standard solution 1000 mg/l for ICP (NaNO₃ in H₂O)



Sodium, standard solution 10000 mg/l for ICP (Na in HNO₃ 2%)



Sodium, standard solution 10000 mg/l for ICP (NaNO₃ in HNO₃ 2%)



Sodium, standard solution 10000 mg/l Na for IC (Na in H₂O)



Sodium, standard solution 50000 mg/l for ICP (Na in HNO₃ 5%)



Strontium, standard solution 1000 mg/l for ICP (Sr(NO₃)₂ in HNO₃ 2%)



Strontium, standard solution 10000 mg/l for ICP (Sr in HNO₃ 2%)



Sulfur, standard solution 1000 mg/l for ICP ((NH₄)₂SO₄ in H₂O)



Sulfur, standard solution 1000 mg/l for ICP/MS (S in H₂O)



Sulfur, standard solution 10000 mg/l S for ICP in H₂O



Tantalum, standard solution 1000 mg/l for ICP (Ta in HNO₃ 5% + HF 1%)



Tantalum, standard solution 10000 mg/l for ICP (Ta in HNO₃ 2%)



Tellurium, standard solution 1000 mg/l for ICP (Te in HCl 20%)



Tellurium, standard solution 10000 mg/l for ICP (Te in HNO₃ 2%)



Terbium, standard solution 1000 mg/l Tb for ICP (terbium oxide in nitric acid 2%)



Thallium, standard solution 1000 mg/l for ICP (Tl in HNO₃ 2%)



Thallium, standard solution 10000 mg/l for ICP (Tl in HNO₃ 2%)



Tin, standard solution 1000 mg/l for ICP (Sn in HCl 20%)



Tin, standard solution 10000 mg/l for ICP (Sn in HCl 2%)



Titanium, standard solution 1000 mg/l for ICP ($(\text{NH}_4)_2\text{TiF}_6$ in HNO_3 5% + HF 0,5%)



Titanium, standard solution 10000 mg/l for ICP (Ti in HNO_3 2%)



Tungsten, standard solution 1000 mg/l for ICP (WO_3 in NH_3 4%)



Tungsten, standard solution 10000 mg/l for ICP (W in HNO_3 2%)



Vanadium, standard solution 1000 mg/l for ICP (V_2O_5 in HNO_3 2%)



Vanadium, standard solution 10000 mg/l for ICP (V in HNO_3 2%)



Ytterbium, standard solution 1000 mg/l for ICP (Yb_2O_3 in HNO_3 2%)



Ytterbium, standard solution 10000 mg/l for ICP (Yb in HNO₃ 2%)



Yttrium, standard solution 1000 mg/l for ICP (Y₂O₃ in HNO₃ 2%)



Yttrium, standard solution 10000 mg/l for ICP (Y in HNO₃ 2%)



Zinc, standard solution 1000 mg/l for ICP (Zn in HNO₃ 2%)



Zinc, standard solution 10000 mg/l for ICP (Zn in HNO₃ 2%)



Zirconium, standard solution 1000 mg/l for ICP (ZrO(NO₃)₂ in HNO₃ 5% + HF 0,5%)



Zirconium, standard solution 10000 mg/l for ICP (Zr in HNO₃ 2%)

STANDARDS, ICP-MS SINGLE ELEMENT



Single-element ICP standards are standards used in chemical analysis by Inductively Coupled Plasma Mass Spectrometry for the accurate determination of individual elements in samples.



ICP monoelemental - Silicon 10000 mg/l in H₂O



ICP-MS monoelemental - Manganese 10 mg/l in HNO₃ 2% (Mn(NO₃)₂ 99,999%)



ICP-MS monoelemental - Aluminium 10 mg/l in HNO₃ 2%
(Al(NO₃)₃ 99,999%)



ICP-MS monoelemental - Antimony 10 mg/l in HNO₃ 2%
(Sb 99,999%)



ICP-MS monoelemental - Arsenic 10mg/l in HNO₃ 2% (As
99,9995%)



ICP-MS monoelemental - Barium 10 mg/l in HNO₃ 2%
(BaCO₃ 99,999%)



ICP-MS monoelemental - Boron 10 mg/l in H₂O
((NH₄)₂B₄O₇ 99,999%)



ICP-MS monoelemental - Cadmium 10 mg/l in HNO₃ 2%
(Cd 99,9999%)



ICP-MS monoelemental - Cadmium 100 mg/l in HNO₃ 2%
(Cd 99.9999%)



ICP-MS monoelemental - Calcium 10000 mg/l in HNO₃ 2%



ICP-MS monoelemental - Chromium 10 mg/l in HNO₃ 2%
(Cr(NO₃)₂ 99,999%)



ICP-MS monoelemental - Chromium 100 mg/l in HNO₃ 2%
(Cr(NO₃)₃ 99.999%)



ICP-MS monoelemental - Cobalt 10 mg/l in HNO₃ 2% (Co
99,999%)



ICP-MS monoelemental - Copper 10 mg/l in HNO₃ 2% (Cu
99,999%)



ICP-MS monoelemental - Germanium 10 mg/l in HNO₃ 2%
(Ge 99,999%)



ICP-MS monoelemental - Iron 10 mg/l in HNO₃ 2%
(Fe(NO₃)₃ 99,9995%)



ICP-MS monoelemental - Lead 100 mg/l in HNO₃ 2%
(Pb(NO₃)₂ (99,9995%))



ICP-MS monoelemental - Magnesium 10000 mg/l in HNO₃ 2%



ICP-MS monoelemental - Mercury 10mg/l in HNO₃ 5%
(HgO 99,9999%)



ICP-MS monoelemental - Nickel 10 mg/l in HNO₃ 2%
(Ni(NO₃)₂ 99,9998%)



ICP-MS monoelemental - Phosphorus 10 mg/l in H₂O
(NH₄H₂PO₄ 99,999%)



ICP-MS monoelemental - Phosphorus 1000mg/l in H₂O (P 99,9999%)



ICP-MS monoelemental - Potassium 10000 mg/l in HNO₃ 2% (K 99,9995%)



ICP-MS monoelemental - Rhenium 10 mg/l in HNO₃ 2% (Re 99,995%)



ICP-MS monoelemental - Scandium 10mg/l in HNO₃ 2% (Sc(NO₃)₃ 99,999%)



ICP-MS monoelemental - Selenium 10 mg/l in HNO₃ 2% (Se 99,999%)



ICP-MS monoelemental - Sodium 10000 mg/l in HNO₃ 2%



ICP-MS monoelemental - Strontium 10000 mg/l in HNO₃ 2%



ICP-MS monoelemental - Sulphur 10 mg/l in H₂O
((NH₄)₂SO₄ 99,999%)



ICP-MS monoelemental - Sulphur 100 mg/l in H₂O
((NH₄)₂SO₄ 99,999%)



ICP-MS monoelemental - Tin 10mg/l en HNO₃/ HF (Sn 99,999%)



ICP-MS monoelemental - Zinc 10 mg/l in HNO₃ 2% (Zn 99,999%)

STANDARDS, ION CHROMATOGRAPHY



Ion chromatography standards are standards used in chemical tests to accurately determine the ions present in a sample.



Ammonium, standard solution 1000 mg/l NH_4^+ for IC
(NH_4Cl in H_2O)



Bromates (BrO_3^-), standard solution 1000 mg/l in H_2O for IC



Bromide, standard solution 1000 mg/l Br^- for IC (KBr in H_2O)



Calcium, standard solution 1000 mg/l Ca^{2+} for IC (CaCl_2 in H_2O)



Chloride, standard solution 1000 mg/l Cl^- for IC (NaCl in H_2O)



Chlorites, standard solution 1000 mg/l for IC (ClO_2^- in H_2O)



Chromium, standard solution 1000 mg/l Cr^{6+} for IC ($(\text{NH}_4)_2\text{Cr}_2\text{O}_7$ in H_2O)



Cyanides, 1 g/l in Water/ tr. KOH for IC



Fluoride, standard solution 1000 mg/l F^- for IC (NaF in H_2O)



Glycolate, standard solution 1000 mg/l $\text{C}_2\text{H}_3\text{O}_3^-$ for IC ($\text{C}_2\text{H}_4\text{O}_3$ in H_2O)



Iodide, standard solution 1000 mg/l I⁻ for IC (KI in H₂O)



Lithium, standard solution 1000 mg/l Li⁺ for IC (Li₂CO₃ in H₂O)



Magnesium, standard solution 1000 mg/l Mg²⁺ for IC (MgCl₂ in H₂O)



Nitrate, standard solution 1000 mg/l NO₃⁻ for IC (NH₄NO₃ in H₂O)



Nitrite, standard solution 1000 mg/l NO₂⁻ for IC (NaNO₂ in H₂O)



Perchlorate, standard solution 1000 mg/l ClO₄⁻ for IC (KClO₄ in H₂O)



Phosphate, standard solution 1000 mg/l PO_4^{3-} for IC ($\text{NH}_4\text{H}_2\text{PO}_4$ in H_2O)



Potassium, standard solution 1000 mg/l K^+ for IC (KCl in H_2O)



Sodium, standard solution 1000 mg/l Na^+ for IC (NaCl in H_2O)



Sulfate, standard solution 1000 mg/l SO_4^{2-} for IC (Na_2SO_4 in H_2O)

STANDARDS, PH BUFFER SOLUTIONS

pH measurements are probably the most common of all routine laboratory tasks. As pH affects all chemical and biochemical reactions, it is very important to have a reliable measurement. pH meters measure the voltage between two electrodes immersed in a sample and compare it to values measured with the same electrode pair in standard solutions. Scharlau standard buffer solutions are accurate, stable and directly traceable to NIST. They are measured performing a multiple-point calibration according to DIN 19268. The calibration standards are prepared according to DIN 19266.



Buffer solution pH = 1,00 (20 °C) (Hydrochloric acid/Sodium chloride)



Buffer solution pH = 10,00 (20 °C) (Sodium carbonate/Sodium hydrogen carbonate)



Buffer solution pH = 10,00 (20 °C), blue-coloured



Buffer solution pH = 10,00 (25 °C), blue-coloured



Buffer solution pH = 11,00 (20 °C) (Boric acid/Sodium hydroxide/Potassium chloride)



Buffer solution pH = 12,00 (20 °C) (di-Sodium hydrogen phosphate/Sodium hydroxide)



Buffer solution pH = 13,00 (20 °C) (Potassium chloride/Sodium hydroxide)



Buffer solution pH = 2,00 (20 °C) (Citric acid/Sodium hydroxide/Hydrochloric acid)



Buffer solution pH = 3,00 (20 °C) (ortho-Phosphoric acid/Potassium dihydrogen phosphate)



Buffer solution pH = 4,00 (20 °C) (Potassium hydrogen phthalate)



Buffer solution pH = 4,00 (20 °C), red-coloured



Buffer solution pH = 4,00 (25 °C), red-coloured



Buffer solution pH = 4,01 (20 °C) (Potassium hydrogen phthalate)



Buffer solution pH = 5,00 (20 °C) (Acetic acid/Sodium acetate)



Buffer solution pH = 6,00 (20 °C) (Potassium dihydrogen phosphate/Sodium hydroxide)



Buffer solution pH = 7,00 (20 °C) (Potassium dihydrogen phosphate/di-Sodium hydrogen phosphate)



Buffer solution pH = 7,00 (20 °C), yellow-coloured



Buffer solution pH = 7,00 (25 °C), yellow-coloured



Buffer solution pH = 7,02 (Potassium dihydrogen phosphate/di-Sodium hydrogen phosphate)



Buffer solution pH = 8,00 (20 °C) (Boric acid/Potassium chloride/Sodium hydroxide)



Buffer solution pH = 9,00 (20 °C) (Boric acid/Potassium chloride/Sodium hydroxide)



Buffer solution pH = 9,26 (20 °C) (di-Sodium tetraborate decahydrate)

STANDARDS, VOLUMETRIC TITRATION TITRASURE



Titration is an analytical technique that measures the volume of a solution of known concentration that reacts with a solution of unknown concentration to determine said concentration. Titration standards are chemical solutions of accurately known concentrations that are used as a reference for titrations.



Benzoic acid, secondary standard for volumetric titrations, Titrasure®



Calcium carbonate, secondary standard for volumetric titrations, Titrasure®



di-Sodium oxalate, secondary standard for volumetric titrations, Titrasure®



Iron(II) ethylenediammonium sulfate tetrahydrate, secondary standard for titrations, Titrasure®



Potassium chloride, secondary standard for volumetric titrations, Titrasure®



Potassium dichromate, secondary standard for volumetric titrations, Titrasure®



Potassium hydrogen phthalate, secondary standard for volumetric titrations, Titrasure®



Potassium iodate, secondary standard for volumetric titrations, Titrasure®



Sodium chloride, secondary standard for volumetric titrations, Titrasure®



Tris-(hydroxymethyl)-aminomethane, secondary standard for volumetric titrations, Titrasure®



Zinc, secondary standard for volumetric titrations, Titrasure®

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
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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
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
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