

# Реагенты для хроматографии

## Технические характеристики

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## 1-Butane sulfonic acid, sodium salt, HPLC grade

- Synonyms: Sodium 1-butyldisulfonate
- $C_4H_9NaO_3S$
- $M = 160,17 \text{ g/mol}$
- CAS [2386-54-1]
- EINECS-No.: 219-201-1
- Solub. in water: (20 °C): soluble
- Melting point: > 310 °C
- Tariff number: 2904 10 00 90
- Applications: chromatography, synthesis of organic products.

### SPECIFICATIONS

assay (acidimetric): min. 99 %  
identity (IR-spectrum): passes test  
insoluble matter: passes test

wavelength:: absorbance:

210 nm: 0,1 AU  
220 nm: 0,06 AU  
230 nm: 0,04 AU  
260 nm: 0,02 AU



## 1-Decane sulfonic acid, sodium salt, HPLC grade

- Synonyms: Sodium 1-decylsulfonate
- $C_{10}H_{21}NaO_3S$
- $M = 244,33 \text{ g/mol}$
- CAS [13419-61-9]
- EINECS-No.: 236-525-9
- Solub. in water: (20 °C): soluble
- Melting point: > 300 °C
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, chromatography, synthesis of organic products.

### SPECIFICATIONS

assay (acidimetric): min. 99 %  
identity (IR-spectrum): passes test:

insoluble matter: passes test

wavelength:: absorbance:

210 nm: 0,05 AU

220 nm: 0,03 AU

230 nm: 0,02 AU

260 nm: 0,02 AU



## 1-Heptane sulfonic acid, sodium salt monohydrate, HPLC grade

- Synonyms: Sodium 1-heptylsulfonate monohydrate
- $C_7H_{15}NaO_3S \cdot H_2O$
- $M = 220,26 \text{ g/mol}$
- CAS [207300-90-1]
- EINECS-No.: 245-210-5
- Solub. in water: (20 °C): freely soluble
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, laboratory reagent, chromatography.

### SPECIFICATIONS

assay (acidimetric): min. 99 %

identity (IR-spectrum): passes test

insoluble matter: passes test

wavelength:: absorbance:

210 nm: 0,1 AU

220 nm: 0,06 AU

230 nm: 0,04 AU

260 nm: 0,02 AU



## 1-Heptane sulfonic acid, sodium salt, HPLC grade

- Synonyms: Sodium 1-heptylsulfonate
- $C_7H_{15}NaO_3S$
- $M = 202,25 \text{ g/mol}$
- CAS [22767-50-6]
- EINECS-No.: 245-210-5
- Solub. in water: (20 °C): freely soluble
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, laboratory reagent, chromatography.

### SPECIFICATIONS

assay (acidimetric): min. 99,0 %

identity (IR-spectrum): passes test

pH (10 %,  $H_2O$ ): 5,5 - 7,5

loss on drying : max. 1 %

absorbance of an aqueous solution 0,1M in a 1cm cell at 254 nm: 0,045 AU

200 nm: max. 0,15 AU

220 nm: max. 0,05 AU



## 1-Hexane sulfonic acid, sodium salt monohydrate, HPLC grade

- Synonyms: Sodium 1-hexylsulfonate monohydrate
- $C_6H_{13}NaO_3S \cdot H_2O$
- M = 206,24 g/mol
- CAS [207300-91-2]
- EINECS-No.: 220-601-3
- Solub. in water: (20 °C): freely soluble
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, chromatography.

### SPECIFICATIONS

assay (acidimetric): min. 99 %  
identity (IR-spectrum): passes test  
insoluble matter: passes test

wavelength:: absorbance:

210 nm: 0,1 AU  
220 nm: 0,06 AU  
230 nm: 0,04 AU  
260 nm: 0,02 AU



## 1-Hexane sulfonic acid, sodium salt, HPLC grade

- Synonyms: Sodium 1-hexylsulfonate
- $C_6H_{13}NaO_3S$
- M = 188,22 g/mol
- CAS [2832-45-3]
- EINECS-No.: 220-601-3
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, chromatography.

### SPECIFICATIONS

assay (acidimetric): min. 99 % :  
pH (10 %,  $H_2O$ ): 5,5 - 7,5  
loss on drying : max. 1 %  
absorbance of an aqueous solution 0,1M in a 1cm cell at 254 nm: max. 0,045 AU

200 nm: max. 0,15 AU  
220 nm: max. 0,05 AU



## 1-Octane sulfonic acid, sodium salt monohydrate, HPLC grade

- Synonyms: Sodium 1-octylsulfonate monohydrate
- $C_8H_{17}NaO_3S \cdot H_2O$
- M = 234,29 g/mol
- CAS [207596-29-0]
- Solub. in water: (20 °C): soluble
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, chromatography.

### SPECIFICATIONS

assay (acidimetric): min. 99 %  
identity (IR-spectrum): passes test  
insoluble matter: passes test

wavelength:: absorbance:

210 nm: 0,1 AU  
220 nm: 0,06 AU  
230 nm: 0,04 AU  
260 nm: 0,02 AU



## 1-Octane sulfonic acid, sodium salt, HPLC grade

- Synonyms: Sodium 1-octylsulfonate
- $C_8H_{17}NaO_3S$
- $M = 216,28 \text{ g/mol}$
- CAS [5324-84-5]
- EINECS-No.: 226-195-4
- Solub. in water: (20 °C): soluble
- Melting point: > 300 °C
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P264 - P305+P351+P338 - P321 - P332+P313 - P337+P313
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, chromatography.

### SPECIFICATIONS

assay (acidimetric): min 99 %  
pH (10 %, H<sub>2</sub>O): 5,5 - 7,5  
loss on drying : max. 1 %  
absorbance of an aqueous solution 0,1M in a 1cm cell at 254 nm: max. 0,045 AU

200 nm: max. 0,15 AU  
220 nm: max. 0,05 AU



## 1-Pentane sulfonic acid, sodium salt monohydrate, HPLC grade

- Synonyms: Sodium 1-pentylsulfonate monohydrate
- $C_5H_{11}NaO_3S \cdot H_2O$
- $M = 192,21 \text{ g/mol}$
- CAS [207605-40-1]
- EINECS-No.: 245-208-4
- Solub. in water: (20 °C): freely soluble
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, chromatography.

### SPECIFICATIONS

assay (acidimetric): min. 99 %  
identity (IR-spectrum): passes test  
insoluble matter: passes test

wavelength:: absorbance:

210 nm: 0,1 AU  
220 nm: 0,06 AU

230 nm: 0,04 AU  
260 nm: 0,02 AU



## 1-Pentane sulfonic acid, sodium salt, HPLC grade

- Synonyms: Sodium 1-pentylsulfonate
- $C_5H_{11}NaO_3S$
- $M = 174,20 \text{ g/mol}$
- CAS [22767-49-3]
- EINECS-No.: 245-208-4
- Solub. in water: (20 °C): freely soluble
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, chromatography.

### SPECIFICATIONS

assay (acidimetric): min. 99 %

pH (10 %,  $H_2O$ ): 5,5 - 7,5

loss on drying : max. 1 %

absorbance of an aqueous solution 0,1M in a 1cm cell at 254 nm: max. 0,045 AU

200 nm: max. 0,15 %

220 nm: max . 0,05 %



## Acetic acid glacial, HPLC grade

- Synonyms: Methane carboxylic acid, Methylformic acid
- $CH_3COOH$
- $M = 60,05 \text{ g/mol}$
- CAS [64-19-7]
- EINECS-No.: 200-580-7
- Density: 1,05 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: 17 °C
- Boiling point: 117 °C
- Flash pt. 39 °C
- Ignition temp.: 485 °C
- Vapour pressure: (20 °C) 15,4 hPa
- Refraction index: (20 °C) 1,37
- LD 50 (oral, rat): 3310 mg/kg
- EC-Index-No.: 607-002-00-6
- ADR: 8 CF1 II UN 2789
- IMDG: 8 II UN 2789
- IATA/ICAO: 8 II UN 2789
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P310 - P370+P378 - P405 - P501a
- Tariff number: 2915 21 00 10
- Applications: laboratory reagent, synthesis of organic products, in the rubber industry, in food industry.

### SPECIFICATIONS

assay (acidimetric): min. 99,8 %

identity (IR-spectrum): passes test

density (20°/4°): 1,048 - 1,050

residue on evaporation: max. 0,0002 %

water (K.F.): max. 0,2 %

Microfiltered through membranes of pore diameter 0,22 µm

wavelength:: T(%) A (AU)

260 nm: 80 % 0,097 AU

270 nm: 95 % 0,022 AU

280 nm: 98 % 0,009 AU



## Ammonium acetate, HPLC grade

- Synonyms: Acetic acid ammonium salt
- $\text{CH}_3\text{COONH}_4$
- M = 77,08 g/mol
- CAS [631-61-8]
- EINECS-No.: 211-162-9
- Solub. in water: (20 °C): soluble
- Melting point: 114 °C
- Flash pt. 136 °C
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, for the detection of: metals.

### SPECIFICATIONS

assay (acidimetric): min. 98 %

identity (IR-spectrum): passes test

insoluble matter: passes test

pH (5 %,  $\text{H}_2\text{O}$ ): 6,5 - 7,5

chlorides (Cl): max. 0,0005 %

iron (Fe): max. 0,0001 %

heavy metals (as Pb): max. 0,0001 %

wavelength:: absorbance:

250 nm: 0,05 AU

260 nm: 0,04 AU

270 nm: 0,03 AU

280 nm: 0,02 AU



## Ammonium carbonate, HPLC grade

- Synonyms: Salt of hartshorn
- $\text{NH}_4\text{HCO}_3 + \text{NH}_4\text{NH}_2\text{COO}$
- CAS [10361-29-2]
- EINECS-No.: 233-786-0
- Solub. in water: (20 °C): soluble
- Melting point: 58 °C (decomposes)
- LD 50 (oral, rat): 1975 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301+P312 - P330 - P501a
- Tariff number: 2836 10 00 00
- Applications: manufacture of dyes, in the rubber industry, analytical chemistry.

### SPECIFICATIONS

assay (acidimetric,  $\text{NH}_3$ ): min. 30,0 %

identity (IR-spectrum): passes test

insoluble matter: passes test

chlorides (Cl): max. 0,0005 %

sulfates (SO<sub>4</sub>): max. 0,005 %  
arsenic (As): max. 3 ppm  
copper (Cu): max. 0,0025 %  
heavy metals: max. 0,001 %  
iron (Fe): max. 5 ppm  
lead (Pb): max. 0,001 %

wavelength:: absorbance:  
240 nm: 0,1 AU  
250 nm: 0,04 AU  
260 nm: 0,02 AU  
280 nm: 0,01 AU



## di-Potassium hydrogen phosphate trihydrate, HPLC grade

- Synonyms: Secondary potassium phosphate, Potassium phosphate dibasic
- K<sub>2</sub>HPO<sub>4</sub>·3H<sub>2</sub>O
- M = 228,23 g/mol
- CAS [16788-57-1]
- EINECS-No.: 231-834-5
- Solub. in water: (20 °C): freely soluble
- Tariff number: 2835 24 00 00
- Applications: in buffer solutions (chromatography).

### SPECIFICATIONS

assay (acidimetric): min. 99 %  
identity (IR-spectrum): passes test  
insoluble matter: passes test  
pH (5 %, H<sub>2</sub>O): 9,2 - 9,4

wavelength:: absorbance:  
230 nm: 0,1 AU  
240 nm: 0,06 AU  
250 nm: 0,04 AU  
310 nm: 0,02 AU



## di-Sodium hydrogen phosphate dihydrate, HPLC grade

- Synonyms: Sodium monohydrogen phosphate, Sodium phosphate dibasic
- Na<sub>2</sub>HPO<sub>4</sub>·2H<sub>2</sub>O
- M = 177,99 g/mol
- CAS [10028-24-7]
- EINECS-No.: 231-448-7
- Solub. in water: (20 °C): 93 g/l
- Melting point: 92,5 °C (release of crystalline water)
- LD 50 (oral, rat): 17000 mg/kg (anhydrous substance)
- Tariff number: 2835 22 00 00
- Applications: analytical chemistry, in buffer solutions (phosphates).

### SPECIFICATIONS

assay (acidimetric, referred to dried sample): min. 99,5 %  
identity (IR): passes test  
insoluble in water : max. 0,4 %  
pH (5 %, H<sub>2</sub>O): 9,0 - 9,2

wavelength:: absorbance:

230 nm: 0,1 AU  
260 nm: 0,06 AU  
280 nm: 0,04 AU  
320 nm: 0,02 AU

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## Heptafluorobutyric acid, 99,5%

- Synonyms: Perfluorobutyric acid, HFBA, Edman reagent No. 3
- $C_4HF_7O_2$
- $M = 214,04 \text{ g/mol}$
- CAS [375-22-4]
- EINECS-No.: 206-786-3
- Density:  $1,645 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point:  $-17,5 \text{ °C}$
- Boiling point: (755mm Hg)  $120 \text{ °C}$
- ADR: 8 C3 II UN 3265
- IMDG: 8 II UN 3265
- IATA/ICAO: 8 II UN 3265
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 2915 90 80 90
- Applications: synthesis of organic products.

### SPECIFICATIONS

assay (acidimetric): min. 99,5 %

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## Potassium dihydrogen phosphate, HPLC grade

- Synonyms: Potassium biphosphate, Potassium phosphate monobasic, Primary potassium phosphate, Mono-potassium phosphate
- $KH_2PO_4$
- $M = 136,09 \text{ g/mol}$
- CAS [7778-77-0]
- EINECS-No.: 231-913-4
- Solub. in water: (20 °C): 222 g/l
- Melting point:  $\sim 253 \text{ °C}$  (decomposes)
- Tariff number: 2835 24 00 00
- Applications: analytical chemistry; in buffer solutions.

### SPECIFICATIONS

assay (acidimetric): min. 99,5 %  
identity (IR-spectrum): passes test  
insoluble matter: passes test  
pH (5 %,  $H_2O$ ): 4,2 - 4,5  
chlorides (Cl): max. 0,0005 %  
iron (Fe): max. 5 ppm  
heavy metals (as Pb): max. 5 ppm

wavelength:: absorbance:

210 nm: 0,1 AU  
220 nm: 0,06 AU  
230 nm: 0,04 AU  
300 nm: 0,02 AU



## Sodium acetate trihydrate, HPLC grade

- Synonyms: Acetic acid sodium salt trihydrate
- $\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$
- $M = 136,08 \text{ g/mol}$
- CAS [6131-90-4]
- EINECS-No.: 204-823-8
- Solub. in water: (20 °C): 613 g/l
- Melting point: 58 °C
- Boiling point: > 400 °C (anhydrous substance) (decomposes)
- Flash pt. > 250 °C (anhydrous substance)
- Ignition temp.: 607 °C
- LD 50 (oral, rat): 3530 mg/kg (anhydrous substance)
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, laboratory reagent, in the pharmaceuticals industry, in food industry (E 262), in buffer solutions (for biology).

### SPECIFICATIONS

assay (titration with  $\text{HClO}_4$ ): min. 99,0 %

identity (IR-spectrum): passes test

insoluble in water : max. 0,005 %

wavelength:: absorbance:

250 nm: 0,05 AU

260 nm: 0,01 AU



## Sodium formate, HPLC grade

- Synonyms: Formic acid sodium salt
- $\text{NaOOCH}$
- $M = 68,01 \text{ g/mol}$
- CAS [141-53-7]
- EINECS-No.: 205-488-0
- Solub. in water: (20 °C): 820 g/l
- Melting point: 255 °C
- LD 50 (oral, rat): 11200 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305+P351+P338 - P337+P313
- Tariff number: 2915 12 00 00
- Applications: analytical chemistry, laboratory reagent, solvents, chromatography, precipitant for: noble metals, for extraction of phosphates in soil samples, synthesis of organic products.

### SPECIFICATIONS

assay (iodometric): min. 99,5 %

identity (IR-spectrum): passes test

insoluble matter: passes test

pH (5 %,  $\text{H}_2\text{O}$ ): 7,0 - 8,5

heavy metals (as Pb): max. 5 ppm

iron (Fe): max. 5 ppm

wavelength:: absorbance:

260 nm: 0,05 AU

270 nm: 0,04 AU

300 nm: 0,03 AU  
330 nm: 0,02 AU

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## Sodium hydrogen carbonate, HPLC grade

- Synonyms: Sodium bicarbonate
- $\text{NaHCO}_3$
- $M = 84,01 \text{ g/mol}$
- CAS [144-55-8]
- EINECS-No.: 205-633-8
- Solub. in water: (20 °C): 95,5 g/l
- Melting point: 270 °C (decomposes)
- Vapour pressure: (30 °C) 8,3 hPa
- LD 50 (oral, rat): 4220 mg/kg
- Tariff number: 2836 30 00 00
- Applications: analytical chemistry, laboratory reagent, to make sodium salts, for laboratory glassware cleaning, source of  $\text{CO}_2$ , in fire extinguishers, in food industry (E-500).

### SPECIFICATIONS

assay (acidimetric): min. 99,5 %  
identity (IR-spectrum): passes test  
insoluble matter: passes test

wavelength:: absorbance:

240 nm: 0,1 AU  
250 nm: 0,04 AU  
260 nm: 0,02 AU  
280 nm: 0,01 AU

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## Sodium lauryl sulfate, for ion-pair chromatography

- Synonyms: Dodecyl sulfate sodium salt, SDS
- $\text{C}_{12}\text{H}_{25}\text{NaO}_4\text{S}$
- $M = 288,38 \text{ g/mol}$
- CAS [151-21-3]
- EINECS-No.: 205-788-1
- Solub. in water: (20 °C): > 130 g/l
- Melting point: 205 °C
- Boiling point: 216 °C
- Flash pt. 170 - 180 °C
- Ignition temp.: 310,5 °C
- Vapour pressure: 0,18 Pa (20 °C)
- LD 50 (oral, rat): 1288 mg/kg
- ADR: 4.1 F1 III UN 1325
- IMDG: 4.1 III UN 1325
- IATA/ICAO: 4.1 III UN 1325
- GHS-signal word: Danger
- GHS-H sentences: H311 - H318 - H228 - H302 - H332 - H315 - H335 - H412
- GHS-P sentences: P210 - P305+P351+P338 - P310 - P370+P378 - P405 - P501a
- Tariff number: 2920 90 10 90
- Applications: in biochemistry, for determination of: tensioactive substances.
- Appearance: White

### SPECIFICATIONS

identity (IR-spectrum): passes test  
insoluble matter: passes test

pH (10 %, H<sub>2</sub>O): 6,0 - 7,5  
loss on drying (120 °C) : max. 2 %

UV at 200 nm: min. 70 %  
UV at 220 nm: min. 90 %  
UV at 250 nm: min. 98 %



## Sodium sulfate anhydrous, for GC residue analysis

- Synonyms: Sulfuric acid sodium salt
- Na<sub>2</sub>SO<sub>4</sub>
- M = 142,04 g/mol
- CAS [7757-82-6]
- EINECS-No.: 231-820-9
- Solub. in water: (20 °C): 160 g/l
- Melting point: 888 °C
- Boiling point: > 890 °C (decomposes)
- Tariff number: 2833 11 00 00
- Applications: analytical chemistry, organic solvents drying.

### SPECIFICATIONS

assay: min. 99 % :  
loss on drying (105 °C): max. 0,5 %  
suitable for pesticide residue analysis



## Tetrabutylammonium bromide, HPLC grade

- Synonyms: TBAB, Tetra-n-butylammonium bromide
- C<sub>16</sub>H<sub>36</sub>BrN
- M = 322,38 g/mol
- CAS [1643-19-2]
- EINECS-No.: 216-699-2
- Solub. in water: (20 °C): 600 g/l
- Melting point: 100 - 103 °C
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301+P312 - P330 - P501a
- Tariff number: 2923 90 00 90
- Applications: analytical chemistry, laboratory reagent, chromatography, synthesis of organic products, phase transfer catalyst.

### SPECIFICATIONS

assay (argentometric): min. 99 %  
identity (IR-spectrum): passes test  
insoluble matter: passes test  
absorbance of a 1% solution in water: passes test



## Tetrabutylammonium hydrogen sulfate, for ion-pair chromatography

- C<sub>16</sub>H<sub>37</sub>NO<sub>4</sub>S
- M = 339,54 g/mol
- CAS [32503-27-8]
- EINECS-No.: 251-068-5
- Solub. in water: (20 °C): freely soluble
- Melting point: 169 - 172 °C
- GHS-signal word: Warning
- GHS-H sentences: H302 - H319
- GHS-P sentences: P280 - P264 - P305+P351+P338 - P301+P312 - P337+P313 - P501a
- Tariff number: 2923 90 00 90
- Applications: analytical chemistry, chromatography, synthesis of organic products, phase transfer catalyst.

#### SPECIFICATIONS

assay (acidimetric): min. 99 %

insoluble matter: passes test

identity (IR-spectrum): passes test

wavelength:: absorbance:

200 nm: 0,155 AU

220 nm: 0,046 AU

250 nm: 0,009 AU



## **Tetrabutylammonium hydroxide, solution 0,1 mol/l, buffered with phosphates, HPLC grade**

- C<sub>16</sub>H<sub>37</sub>NO
- M = 259,48 g/mol
- CAS [2052-49-5]
- EINECS-No.: 218-147-6
- Density: (25 °C) 1,005 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 2923 90 00 90
- Applications: analytical chemistry, chromatography.

#### SPECIFICATIONS

pH (20 °C): 7,4 - 7,6

absorbance of a 0,005 M solution in a 1 cm cell at 254 nm: max. 0,02 AU



## **Triethylamine, HPLC grade**



## **Trifluoroacetic acid, buffer substance, HPLC grade**

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