

ET0110 Ethyl benzene, ExpertQ®, for analysis



assay (G.C.) min. 99,5 %
 identity (IR-spectrum) passes test
 density (20°/4°) 0,866 - 0,867
 acidity max. 0,0003 meq/g
 alkalinity max. 0,0003 meq/g
 aluminium (Al) max. 0,5 ppm
 barium (Ba) max. 0,1 ppm
 boron (B) max. 0,01 ppm
 cadmium (Cd) max. 0,05 ppm
 calcium (Ca) max. 0,5 ppm
 chromium (Cr) max. 0,02 ppm
 copper (Cu) max. 0,02 ppm

iron (Fe) max. 0,1 ppm
 lead (Pb) max. 0,1 ppm
 magnesium (Mg) max. 0,1 ppm
 manganese (Mn) max. 0,02 ppm
 nickel (Ni) max. 0,02 ppm
 tin (Sn) max. 0,1 ppm
 zinc (Zn) max. 0,1 ppm
 sulfur compounds (as S) max. 0,003 %
 substances darkened by H₂SO₄ passes test
 residue on evaporation max. 0,0005 %
 water (K.F.) max. 0,03 %

| ART. NO. | VOLUME | CONTAINER |
|------------|--------|-----------|
| ET01101000 | 1 l | 0 |

ET0113 Ethyl Benzene, standard substance for GC



assay 99,7 %
 over ramp 60°C, 6°C/min 160°C, 20°C/min 220°C
 identity IR

| ART. NO. | VOLUME | CONTAINER |
|------------|--------|-----------|
| ET01130005 | 5 ml | 0 |

ETHYLENEDIAMINE



- Synonyms: 1,2-Ethanediamine, 1,2-Diaminoethane
- C₂H₈N₂
- M = 60,10 g/mol
- CAS [107-15-3]
- EINECS-No.: 203-468-6
- Density: 0,90 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 11 °C
- Boiling point: 116 - 118 °C
- Flash pt. 36 °C
- Ignition temp.: ~ 400 °C
- Vapour pressure: (20 °C) 12 hPa
- Refraction index: (n 20 °C/D) 1,4540
- Dielectric const.: (18 °C) 16

- LD 50 (oral, rat): 76 mg/kg
- EC-Index-No.: 612-006-00-6
- ADR: 8 CF1 II UN 1604
- IMDG: 8 II UN 1604
- IATA/ICAO: 8 II UN 1604
- GHS-signal word: Danger
- GHS-H sentences: H334 - H314 - H226 - H302 - H312 - H317
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2921 21 00 00
- Applications: solvents, emulsifier, in antifreeze compositions, in lubricant compositions, in pharma industry.

ET0135 Ethylenediamine, EssentQ®



assay (acidimetric) min. 99 %
 identity (IR-spectrum) passes test
 density (20°/4°) 0,896 - 0,898
 residue on evaporation max. 0,05 %
 water (K.F.) max. 0,5 %

| ART. NO. | VOLUME | CONTAINER |
|------------|--------|-----------|
| ET01351000 | 1 l | 0 |
| ET01352500 | 2,5 l | 0 |

| ART. NO. | VOLUME | CONTAINER |
|------------|--------|-----------|
| ET0135005P | 5 l | 0 |
| ET0135025A | 25 l | 0 |

ET0137 Ethylenediamine, extra pure, Pharpur®, Ph Eur, BP, USP



assay (acidimetric) 98,0 - 100,5 %
 identification passes test
 appearance of solution passes test
 carbonates passes test
 chlorides (Cl) max. 100 ppm
 ammonium and other bases passes test

iron (Fe) max. 10 ppm
 residue on evaporation max. 0,3 %
 Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

| ART. NO. | VOLUME | CONTAINER |
|------------|--------|-----------|
| ET01370100 | 100 ml | 0 |
| ET01370250 | 250 ml | 0 |
| ET01371000 | 1 l | 0 |

ETHYLENEDIAMINE DIHYDROCHLORIDE

ET0145 Ethylenediamine dihydrochloride, EssentQ®



- Synonyms: 1,2-Diaminoethane dihydrochloride, Ethylenediammonium dichloride
- C₂H₈N₂·2HCl
- M = 133,02 g/mol
- CAS [333-18-6]
- EINECS-No.: 206-369-6
- Solub. in water: (20 °C): 300 g/l
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H332
- GHS-P sentences: P261 - P280 - P322 - P304 + P340 - P363 - P501a
- Tariff number: 2921 21 00 00
- Applications: synthesis of organic products, laboratory reagent, for pharmaceutical use, cosmetics.

assay (argentometric) min. 99 %
 identity (IR-spectrum) passes test
 pH (5 %, H₂O) 4 - 5
 water (K.F.) max. 0,05 %

| ART. NO. | VOLUME | CONTAINER |
|------------|--------|-----------|
| ET01450250 | 250 g | 0 |
| ET01451000 | 1 kg | 0 |