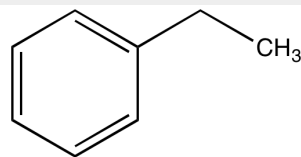


Identification

C_8H_{10}
 M = 106,17 g/mol
 CAS [100-41-4]
 EC number: 202-849-4
 Taric code: 2902 60 00


Synonyms

Ethylbenzene

Applications

analytical chemistry, chromatography, solvents.

Specifications

assay (G.C.).....	min. 99,5 %	iron (Fe).....	max. 0,1 ppm
identity (IR-spectrum).....	passes test	lead (Pb).....	max. 0,1 ppm
density (20°/4°).....	0,866 - 0,867	magnesium (Mg).....	max. 0,1 ppm
acidity.....	max. 0,0003 meq/g	manganese (Mn).....	max. 0,02 ppm
alkalinity.....	max. 0,0003 meq/g	nickel (Ni).....	max. 0,02 ppm
aluminium (Al).....	max. 0,5 ppm	tin (Sn).....	max. 0,1 ppm
barium (Ba).....	max. 0,1 ppm	zinc (Zn).....	max. 0,1 ppm
boron (B).....	max. 0,01 ppm	sulphur compounds (as S).....	max. 0,003 %
cadmium (Cd).....	max. 0,05 ppm	substances darkened by H ₂ SO ₄	passes test
calcium (Ca).....	max. 0,5 ppm	residue on evaporation.....	max. 0,0005 %
chromium (Cr).....	max. 0,02 ppm	water (K.F.).....	max. 0,03 %
copper (Cu).....	max. 0,02 ppm		

Physical data

- Density: 0,87 g/cm³
- Solub. in water: (20 °C): sparingly miscible
- Melting point: -95 °C
- Boiling point: 136 °C
- Flash point: 15 °C
- Ignition temperature: 430 °C
- Vapour pressure: (20 °C) 4,9 hPa
- Dielectric const.: (30 °C) 2,3
- Saturation conc.: (20 °C) 40 g/m³
- Expl. limit (upper): 7,8 Vol%
- Expl. limit (lower): 1,0 Vol%

Safety - GHS

Signal Word: Danger

Hazard Statements:

H225: Highly flammable liquid and vapour.
 H332: Harmful if inhaled.


Precautionary Statements:

P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
 P241: Use explosion-proof electrical / ventilating / lighting / equipment.
 P261: Avoid breathing dust / fume / gas / mist / vapours / spray.
 P280: Wear protective gloves / protective clothing / eye protection / face protection.
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 3500 mg/kg
- MAK: 100 ml/m³, 440 mg/m³
- WGK: 1
- Poison class CH (Swiss): 4

Transport/storage

- ADR: 3 F1 II • UN 1175 • ETHYLBENZENE
- IMDG: 3 II • UN 1175 • ETHYLBENZENE
- IATA/ICAO: 3 II • UN 1175 • ETHYLBENZENE
- PAX: 305
- CAO: 307
- Store between 15°C and 25°C