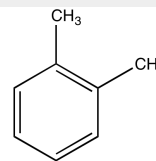


Identification

C_8H_{10}
 M = 106,17 g/mol
 CAS [95-47-6]
 EC number: 202-422-2
 Taric code: 2902 41 00


Synonyms

1,2-Dimethylbenzene

Applications

synthesis of organic products, solvents, manufacture of dyes.

Specifications

assay (G.C.).....	min. 99 %	lead (Pb).....	max. 0,2 ppm
identity (IR-spectrum).....	passes test	nickel (Ni).....	max. 0,2 ppm
refractive index n _{20/D}	1,504 - 1,507	(m + p)-xylene (G.C.).....	max. 1 %
density (20°/20°).....	0,880 - 0,884	thiophene (G.C.).....	max. 0,0005 %
acidity.....	max. 0,0003 meq/g	sulphur compounds (as S).....	max. 0,003 %
alkalinity.....	max. 0,00025 meq/g	residue on evaporation.....	max. 0,005 %
iron (Fe).....	max. 0,5 ppm	water (K.F.).....	max. 0,03 %
copper (Cu).....	max. 0,2 ppm		

Physical data

- Density: 0,88 g/cm³
- Solub. in water: (20 °C): 0,18 g/l
- Melting point: -25 °C
- Boiling point: 144,4 °C
- Flash point: 30 °C
- Ignition temperature: 465 °C
- Vapour pressure: (20 °C) 6,7 hPa
- Viscosity: (20 °C) 0,81 mPas
- Dipolar moment: (20 °C) 0,45 Debye
- Dielectric const.: (30 °C) 2,5
- Saturation conc.: (20 °C) 29 g/m³
- Expl. limit (upper): 7,6 Vol %
- Expl. limit (lower): 1,0 Vol %

Safety - GHS

Signal Word: Warning

Hazard Statements:

- H226: Flammable liquid and vapour.
 H312: Harmful in contact with skin.
 H332: Harmful if inhaled.
 H315: Causes skin irritation.


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.
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
 P321: Specific treatment (see on this label).
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 3609 mg/kg
- MAK: 100 ml/m³, 440 mg/m³
- WGK: 2
- Poison class CH (Swiss): 4

Transport/storage

- ADR: 3 F1 III • UN 1307 • XYLENES
- IMDG: 3 III • UN 1307 • XYLENES
- IATA/ICAO: 3 III • UN 1307 • XYLENES
- PAX: 309
- CAO: 310