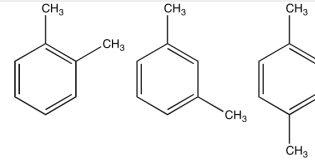


Identification

C_8H_{10}
 M = 106,17 g/mol
 CAS [1330-20-7]
 EC number: 215-535-7
 Taric code: 2902 44 00


Synonyms

Dimethylbenzene, Xylol

Applications

synthesis of organic products, solvents, manufacture of dyes.

Specifications

total content of C ₈ H ₁₀ isomers (G.C.).....	min. 99 %	iron (Fe).....	max. 0,02 ppm
density (20°/4°).....	0,863 - 0,865	lead (Pb).....	max. 0,1 ppm
appearance.....	clear	magnesium (Mg).....	max. 0,1 ppm
colour (Hazen).....	max. 10	manganese (Mn).....	max. 0,01 ppm
acidity.....	max. 0,00025 meq/g	nickel (Ni).....	max. 0,02 ppm
alkalinity.....	max. 0,00025 meq/g	tin (Sn).....	max. 0,1 ppm
aluminium (Al).....	max. 0,1 ppm	zinc (Zn).....	max. 0,01 ppm
barium (Ba).....	max. 0,01 ppm	benzene (G.C.).....	max. 0,1 %
boron (B).....	max. 0,02 ppm	ethylbenzene (G.C.).....	max. 25 %
cadmium (Cd).....	max. 0,01 ppm	thiophene (G.C.).....	max. 0,0001 %
calcium (Ca).....	max. 0,3 ppm	toluene (G.C.).....	max. 0,4 %
chromium (Cr).....	max. 0,02 ppm	sulphur compounds (as S).....	max. 0,003 %
cobalt (Co).....	max. 0,02 ppm	substances darkened by H ₂ SO ₄	passes test
copper (Cu).....	max. 0,02 ppm	residue on evaporation.....	max. 0,0003 %
		water (K.F.).....	max. 0,01 %

Physical data

- Density: 0,86 g/cm³
- Solub. in water: (20 °C): 0,2 g/l
- Melting point: > -34 °C
- Boiling point: 137 - 143 °C
- Flash point: 25 °C
- Ignition temperature: ~ 465 °C
- Vapour pressure: (20 °C) 10 hPa
- Dielectric const.: (25 °C) 2,4
- Saturation conc.: (20 °C) 30 - 38 g/m³
- Expl. limit (upper): 7,5 Vol%
- Expl. limit (lower): 1,7 Vol%

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H226: Flammable liquid and vapour.
 H304: May be fatal if swallowed and enters airways.
 H312+H332: Harmful in contact with skin or if inhaled.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.
 H373: May cause damage to organs through prolonged or repeated exposure.
 H412: Harmful to aquatic life with long lasting effects.


Precautionary Statements:

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
 P241: Use explosion-proof electrical / ventilating / lighting / equipment.
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
 P370+P378: In case of fire: Use ... for extinction.
 P403+P235: Store in a well-ventilated place. Keep cool.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 3 F1 III • UN 1307 • XYLENES
- IMDG: 3 III • UN 1307 • XYLENES
- IATA/ICAO: 3 III • UN 1307 • XYLENES
- PAX: 355
- CAO: 366
- 10°C - 30°C