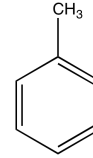


Identification

C₇H₈
 M = 92,14 g/mol
 CAS [108-88-3]
 EC number: 203-625-9
 Taric code: 2902 30 00


Synonyms

Methylbenzene, Phenylmethane

Applications

synthesis of organic products, solvents, as gasoline additive.

Specifications

assay (G.C.).....	min. 99,9 %	nickel (Ni).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	platinum (Pt).....	max. 0,02 ppm
density (20°/4°).....	0,864 - 0,868	silver (Ag).....	max. 0,02 ppm
density (20°/20°).....	0,865 - 0,869	thallium (Tl).....	max. 0,05 ppm
appearance.....	clear	tin (Sn).....	max. 0,1 ppm
colour (Hazen).....	max. 10	titanium (Ti).....	max. 0,05 ppm
acidity.....	max. 0,0002 meq/g	vanadium (V).....	max. 0,05 ppm
alkalinity.....	max. 0,0002 meq/g	zinc (Zn).....	max. 0,01 ppm
chlorides (Cl).....	max. 0,00005 %	zirconium (Zr).....	max. 0,02 ppm
sulfates (SO ₄).....	max. 0,0001 %	benzene (G.C.).....	max. 0,05 %
aluminium (Al).....	max. 0,1 ppm	sulphur compounds (as S).....	max. 0,003 %
antimony (Sb).....	max. 0,02 ppm	tiophene (C ₄ H ₄ S).....	max. 0,0001 %
arsenic (As).....	max. 0,02 ppm	substances darkened by H ₂ SO ₄	passes test
barium (Ba).....	max. 0,01 ppm	residue on evaporation.....	max. 0,0002 %
beryllium (Be).....	max. 0,02 ppm	water (K.F.).....	max. 0,02 %
bismuth (Bi).....	max. 0,1 ppm		
boron (B).....	max. 0,02 ppm	liquid chromatography suitability	
cadmium (Cd).....	max. 0,01 ppm	absorbance.....	passes test
calcium (Ca).....	max. 0,3 ppm		
chromium (Cr).....	max. 0,02 ppm	min. transmission/max. absorbance	
cobalt (Co).....	max. 0,02 ppm	in a 1,0 cm cell at	
copper (Cu).....	max. 0,02 ppm	wavelength:	T(%) A (AU)
gallium (Ga).....	max. 0,02 ppm	285 nm.....	10 % 1,000 AU
gold (Au).....	max. 0,1 ppm	292 nm.....	50 % 0,301 AU
indium (In).....	max. 0,02 ppm	305 nm.....	80 % 0,097 AU
iron (Fe).....	max. 0,1 ppm	317 nm.....	90 % 0,046 AU
lead (Pb).....	max. 0,1 ppm	350 nm.....	98 % 0,009 AU
lithium (Li).....	max. 0,02 ppm		
magnesium (Mg).....	max. 0,1 ppm	Microfiltered through membranes	
manganese (Mn).....	max. 0,01 ppm	of pore diameter 0,22 µm	
molybdenum (Mo).....	max. 0,05 ppm		

Physical data

- Density: 0,87 g/cm³
- Solub. in water: (20 °C): 0,52 g/l
- Melting point: -95 °C
- Boiling point: 111 °C
- Flash point: 4 °C
- Ignition temperature: 535 °C
- Vapour pressure: (20 °C) 29 hPa
- Viscosity: (20 °C) 0,58 mPas
- Dipolar moment: (20 °C) 0,36 Debye
- Dielectric const.: (25 °C) 2,3
- Saturation conc.: (20 °C) 110 g/m³
- Expl. limit (upper): 8 Vol%
- Expl. limit (lower): 1,2 Vol%

Safety - GHS**Signal Word:** Danger**Hazard Statements:**

H225: Highly flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H361d: Suspected of damaging the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.

Precautionary Statements:

P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
P241: Use explosion-proof electrical / ventilating / lighting / equipment.
P260: Do not breathe 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.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 636 mg/kg
- MAK: 50 ml/m³, 190 mg/m³
- WGK: 2
- Poison class CH (Swiss): 4

Transport/storage

- ADR: 3 F1 II • UN 1294 • TOLUENE
- IMDG: 3 II • UN 1294 • TOLUENE
- IATA/ICAO: 3 II • UN 1294 • TOLUENE
- PAX: 305
- CAO: 307