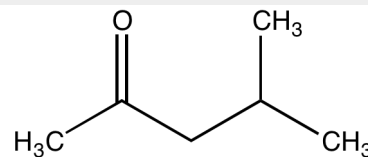


**Identification**

$C_6H_{12}O$   
 M = 100,16 g/mol  
 CAS [108-10-1]  
 EC number: 203-550-1  
 Taric code: 2914 13 00


**Synonyms**

Isobutyl methyl ketone, 4-Methyl-2-pentanone, Isopropylacetone, Hexone, MIBK

**Applications**

laboratory reagent, synthesis of organic products, solvents.

**Specifications**

assay (G.C.).....	min. 99,5 %	cobalt (Co).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	copper (Cu).....	max. 0,02 ppm
density (20°/4°).....	0,800 - 0,802	iron (Fe).....	max. 0,1 ppm
appearance.....	clear	lead (Pb).....	max. 0,1 ppm
colour (Hazen).....	max. 10	magnesium (Mg).....	max. 0,1 ppm
acidity.....	max. 0,002 meq/g	manganese (Mn).....	max. 0,02 ppm
alkalinity.....	max. 0,001 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. 0,02 ppm	substances reducing KMnO4 .....	passes test
cadmium (Cd).....	max. 0,05 ppm	residue on evaporation.....	max. 0,0005 %
calcium (Ca).....	max. 0,5 ppm	water (K.F.).....	max. 0,05 %
chromium (Cr).....	max. 0,02 ppm		

**Physical data**

- Density: 0,80 g/cm<sup>3</sup>
- Solub. in water: (20 °C): ~ 18 - 20 g/l
- Melting point: -84 °C
- Boiling point: 116 - 118 °C
- Flash point: 14 °C
- Ignition temperature: 475 °C
- Vapour pressure: (20 °C) 20,2 hPa
- Dipolar moment: (20 °C) 13,11 Debye
- Dielectric const.: (20 °C) 13,1
- Evap. heat: (117 °C) 364 KJ/kg
- Saturation conc.: (20 °C) 82 g/m<sup>3</sup>
- Expl. limit (upper): 8,0 Vol%
- Expl. limit (lower): 1,2 Vol%
- pH(20 °C) ~ 7

**Safety - GHS**

**Signal Word:** Danger


**Hazard Statements:**

- H225: Highly flammable liquid and vapour.  
 H332: Harmful if inhaled.  
 H319: Causes serious eye irritation.  
 H335: May cause respiratory irritation.  
 EUH066: Repeated exposure may cause skin dryness or cracking.

**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.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P405: Store locked up.  
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Toxicological data**

- LD 50 (oral, rat): 2080 mg/kg
- MAK: 20 ml/m<sup>3</sup>, 83 mg/m<sup>3</sup>
- WGK: 1
- Poison class CH (Swiss): 4

**Transport/storage**

- ADR: 3 F1 II • UN 1245 • METHYL ISOBUTYL KETONE
- IMDG: 3 II • UN 1245 • METHYL ISOBUTYL KETONE
- IATA/ICAO: 3 II • UN 1245 • METHYL ISOBUTYL KETONE
- PAX: 305
- CAO: 307
- Store between 15°C and 25°C