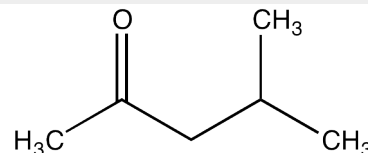


Methyl isobutyl ketone, for analysis, ExpertQ®, ACS

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 %	chromium (Cr).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	cobalt (Co).....	max. 0,02 ppm
density (20°/4°).....	0,800 - 0,802	copper (Cu).....	max. 0,02 ppm
appearance.....	clear	iron (Fe).....	max. 0,1 ppm
colour (Hazen).....	max. 10	lead (Pb).....	max. 0,1 ppm
acidity.....	max. 0,002 meq/g	magnesium (Mg).....	max. 0,1 ppm
alkalinity.....	max. 0,001 meq/g	manganese (Mn).....	max. 0,02 ppm
aluminium (Al).....	max. 0,5 ppm	nickel (Ni).....	max. 0,02 ppm
barium (Ba).....	max. 0,1 ppm	tin (Sn).....	max. 0,1 ppm
boron (B).....	max. 0,02 ppm	zinc (Zn).....	max. 0,1 ppm
cadmium (Cd).....	max. 0,05 ppm	substances reducing $KMnO_4$	passes test
calcium (Ca).....	max. 0,5 ppm	residue on evaporation.....	max. 0,0005 %
		water (K.F.).....	max. 0,05 %

Physical data

- Density: 0,80 g/cm³
- 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/m³
- 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.
H351: Suspected of causing cancer.
EUH066: Repeated exposure may cause skin dryness or cracking.



Precautionary Statements:

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
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.
P370+P378: In case of fire: Use ... for extinction.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

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
- 15°C - 25°C