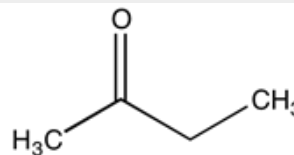


**Identification**

C<sub>4</sub>H<sub>8</sub>O  
 M = 72,11 g/mol  
 CAS [78-93-3]  
 EC number: 201-159-0  
 Taric code: 2914 12 00


**Synonyms**

2-Butanone, Methyl ethyl ketone, MEK

**Applications**

analytical chemistry, chromatography, synthesis of organic products, in food industry.

**Specifications**

assay (G.C.).....	min. 99,5 %	copper (Cu).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 0,1 ppm
density (20°/4°).....	0,804 - 0,806	lead (Pb).....	max. 0,1 ppm
density (20°/20°).....	0,805 - 0,807	magnesium (Mg).....	max. 0,1 ppm
appearance.....	clear	manganese (Mn).....	max. 0,02 ppm
colour (Hazen).....	max. 10	nickel (Ni).....	max. 0,02 ppm
boiling point.....	79 - 80 °C	potassium (K).....	max. 0,1 ppm
acidity.....	max. 0,0005 meq/g	strontium (Sr).....	max. 0,02 ppm
alkalinity.....	max. 0,0002 meq/g	tin (Sn).....	max. 0,1 ppm
aluminium (Al).....	max. 0,5 ppm	zinc (Zn).....	max. 0,1 ppm
barium (Ba).....	max. 0,1 ppm	acetone (G.C.).....	max. 0,05 %
boron (B).....	max. 0,02 ppm	2-butanol (G.C.).....	max. 0,05 %
cadmium (Cd).....	max. 0,05 ppm	methanol (G.C.).....	max. 0,05 %
calcium (Ca).....	max. 0,5 ppm	2-methyl-2-propanol (G.C.).....	max. 0,1 %
chromium (Cr).....	max. 0,02 ppm	substances reducing KMnO <sub>4</sub> .....	passes test
cobalt (Co).....	max. 0,02 ppm	residue on evaporation.....	max. 0,0005 %
		water (K.F.).....	max. 0,05 %

**Physical data**

- Density: 0,80 g/cm<sup>3</sup>
- Solub. in water: (20 °C): 292 g/l
- Melting point: -86 °C
- Boiling point: 79,6 °C
- Flash point: -4 °C
- Ignition temperature: 505 °C
- Vapour pressure: (20 °C) 105 hPa
- Viscosity: (15 °C) 0,42 mPas
- Dipolar moment: (20 °C) 2,7 Debye
- Dielectric const.: (20 °C) 18,5
- Saturation conc.: (20 °C) 310 g/m<sup>3</sup>
- Expl. limit (upper): 11,5 Vol%
- Expl. limit (lower): 1,8 Vol%
- pH(300 g/l H<sub>2</sub>O, 20 °C) ~ 5,5

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H225: Highly flammable liquid and vapour.  
 H319: Causes serious eye irritation.  
 H336: May cause drowsiness or dizziness.  
 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 1193 • ETHYL METHYL KETONE (METHYL ETHYL KETONE)
- IMDG: 3 II • UN 1193 • ETHYL METHYL KETONE
- IATA/ICAO: 3 II • UN 1193 • ETHYL METHYL KETONE
- PAX: 305
- CAO: 307
- 15°C - 25°C