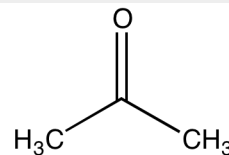


**Identification**

C<sub>3</sub>H<sub>6</sub>O  
 M = 58,08 g/mol  
 CAS [67-64-1]  
 EC number: 200-662-2  
 Taric code: 2914 11 00


**Synonyms**

Dimethyl ketone, 2-Propanone

**Applications**

solvents, analytical chemistry, synthesis of organic products, photography.

**Specifications**

assay (G.C.).....	min. 99,8 %	molybdenum (Mo).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	nickel (Ni).....	max. 0,01 ppm
density (20°/4°).....	0,787 - 0,791	silver (Ag).....	max. 0,02 ppm
appearance of solution.....	passes test	thallium (Tl).....	max. 0,02 ppm
colour (Hazen).....	max. 10	tin (Sn).....	max. 0,1 ppm
solubility in water.....	passes test	titanium (Ti).....	max. 0,02 ppm
insoluble in water.....	passes test	vanadium (V).....	max. 0,02 ppm
acidity.....	max. 0,0002 meq/g	zinc (Zn).....	max. 0,01 ppm
alkalinity.....	max. 0,0002 meq/g	zirconium (Zr).....	max. 0,02 ppm
chlorides (Cl).....	max. 0,00001 %	aldehydes (as HCHO).....	max. 0,002 %
nitrates (NO <sub>3</sub> ).....	max. 0,00001 %	cyclohexane (G.C.).....	max. 0,1 %
phosphates (as PO <sub>4</sub> ).....	max. 0,00001 %	alcoholacetone (G.C.).....	max. 0,02 %
sulfates (SO <sub>4</sub> ).....	max. 0,00001 %	ethanol (G.C.).....	max. 0,01 %
aluminium (Al).....	max. 0,1 ppm	methanol (G.C.).....	max. 0,05 %
antimony (Sb).....	max. 0,02 ppm	2-propanol (G.C.).....	max. 0,05 %
arsenic (As).....	max. 0,02 ppm	reducing substances.....	passes test
barium (Ba).....	max. 0,01 ppm	residue on evaporation.....	max. 0,0002 %
beryllium (Be).....	max. 0,02 ppm	water (K.F.).....	max. 0,2 %
bismuth (Bi).....	max. 0,02 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. 0,01 ppm	wavelength:	T(%) A (AU)
gallium (Ga).....	max. 0,02 ppm	330 nm.....	10 % 1,000 AU
germanium (Ge).....	max. 0,02 ppm	335 nm.....	50 % 0,301 AU
gold (Au).....	max. 0,02 ppm	339 nm.....	80 % 0,097 AU
indium (In).....	max. 0,02 ppm	342 nm.....	90 % 0,046 AU
iron (Fe).....	max. 0,02 ppm	350 nm.....	98 % 0,009 AU
lead (Pb).....	max. 0,01 ppm		
lithium (Li).....	max. 0,05 ppm	Microfiltered through membranes	
magnesium (Mg).....	max. 0,1 ppm	of pore diameter 0,22 µm	
manganese (Mn).....	max. 0,01 ppm		

**Physical data**

- Density: 0,79 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: -95 °C
- Boiling point: 56 °C
- Flash point: < -20 °C
- Ignition temperature: 540 °C
- Vapour pressure: (20 °C) 233 hPa
- Refraction index: (n 20 °C/D) 1,3588
- Viscosity: (25 °C) 0,31 mPas
- Dipolar moment: (20 °C) 2,7 Debye
- Dielectric const.: (25 °C) 20,7
- Evap. heat: (56 °C) 521 KJ/kg
- Saturation conc.: (20 °C) 533 g/m<sup>3</sup>
- Expl. limit (upper): 13 Vol%
- Expl. limit (lower): 2,6 Vol%
- pH(395 g/l H<sub>2</sub>O, 20 °C) 5 - 6

**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.  
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): 5800 mg/kg
- MAK: 500 ml/m<sup>3</sup>, 1200 mg/m<sup>3</sup>
- WGK: 1
- Poison class CH (Swiss): 5

**Transport/storage**

- ADR: 3 F1 II • UN 1090 • ACETONE
- IMDG: 3 II • UN 1090 • ACETONE
- IATA/ICAO: 3 II • UN 1090 • ACETONE
- PAX: 305
- CAO: 307
- Store between 15°C and 25°C