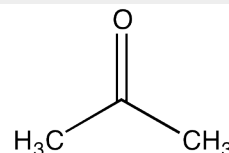


Identification

C_3H_6O
 $M = 58,08 \text{ g/mol}$
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 %
identity (IR-spectrum).....	passes test
density (20°/4°).....	0,787 - 0,791
appearance of solution.....	passes test
colour (Hazen).....	max. 10
solubility in water.....	passes test
insoluble in water.....	passes test
acidity.....	max. 0,0002 meq/g
alkalinity.....	max. 0,0002 meq/g
chlorides (Cl).....	max. 0,00001 %
nitrate (NO ₃).....	max. 0,00001 %
phosphates (as PO ₄).....	max. 0,00001 %
sulfates (SO ₄).....	max. 0,00001 %
aluminium (Al).....	max. 0,1 ppm
antimony (Sb).....	max. 0,02 ppm
arsenic (As).....	max. 0,02 ppm
barium (Ba).....	max. 0,01 ppm
beryllium (Be).....	max. 0,02 ppm
bismuth (Bi).....	max. 0,02 ppm
boron (B).....	max. 0,02 ppm
cadmium (Cd).....	max. 0,01 ppm
calcium (Ca).....	max. 0,3 ppm
chromium (Cr).....	max. 0,02 ppm
cobalt (Co).....	max. 0,02 ppm
copper (Cu).....	max. 0,01 ppm
gallium (Ga).....	max. 0,02 ppm
germanium (Ge).....	max. 0,02 ppm
gold (Au).....	max. 0,02 ppm
indium (In).....	max. 0,02 ppm
iron (Fe).....	max. 0,02 ppm
lead (Pb).....	max. 0,01 ppm
lithium (Li).....	max. 0,05 ppm

magnesium (Mg).....	max. 0,1 ppm
manganese (Mn).....	max. 0,01 ppm
molybdenum (Mo).....	max. 0,02 ppm
nickel (Ni).....	max. 0,01 ppm
silver (Ag).....	max. 0,02 ppm
thallium (Tl).....	max. 0,02 ppm
tin (Sn).....	max. 0,1 ppm
titanium (Ti).....	max. 0,02 ppm
vanadium (V).....	max. 0,02 ppm
zinc (Zn).....	max. 0,01 ppm
zirconium (Zr).....	max. 0,02 ppm
aldehydes (as HCHO).....	max. 0,002 %
cyclohexane (G.C.).....	max. 0,1 %
alcohol diacetone (G.C.).....	max. 0,02 %
ethanol (G.C.).....	max. 0,01 %
methanol (G.C.).....	max. 0,05 %
2-propanol (G.C.).....	max. 0,05 %
reducing substances.....	passes test
residue on evaporation.....	max. 0,0002 %
water (K.F.).....	max. 0,2 %

liquid chromatography suitability

absorbance..... passes test

min. transmission/max. absorbance in a 1,0 cm cell at

wavelength:.....	T(%)	A (AU)
330 nm.....	10 %	1,000 AU
335 nm.....	50 %	0,301 AU
339 nm.....	80 %	0,097 AU
342 nm.....	90 %	0,046 AU
350 nm.....	98 %	0,009 AU

Microfiltered through membranes of pore diameter 0,22 µm

Physical data

- Density: 0,79 g/cm³
- 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/m³
- Expl. limit (upper): 13 Vol%
- Expl. limit (lower): 2,6 Vol%
- pH(395 g/l H₂O, 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.

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 1090 • ACETONE
- IMDG: 3 II • UN 1090 • ACETONE
- IATA/ICAO: 3 II • UN 1090 • ACETONE
- PAX: 305
- CAO: 307
- 10°C - 30°C