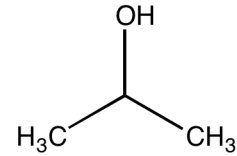


Identification

C₃H₈O
M = 60,10 g/mol
CAS [67-63-0]
EC number: 200-661-7
Taric code: 2905 12 00


Synonyms

Isopropyl alcohol, Isopropanol, iso-Propanol, Dimethylcarbinol, 2-Hydroxypropane

Applications

solvents, in antifreeze compositions, cosmetics.

Specifications

assay (G.C.).....	min. 99,8 %	platinum (Pt).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	silver (Ag).....	max. 0,02 ppm
density (20°/4°).....	0,784 - 0,786	thallium (Tl).....	max. 0,02 ppm
appearance.....	clear	tin (Sn).....	max. 0,1 ppm
colour (Hazen).....	max. 10	titanium (Ti).....	max. 0,02 ppm
solubility in water.....	passes test	vanadium (V).....	max. 0,02 ppm
acidity.....	max. 0,0001 meq/g	zinc (Zn).....	max. 0,01 ppm
alkalinity.....	max. 0,0001 meq/g	zirconium (Zr).....	max. 0,02 ppm
chlorides (Cl).....	max. 0,00003 %	acetone (G.C.).....	max. 0,01 %
nitrates (NO ₃).....	max. 0,00003 %	ethanol (G.C.).....	max. 0,01 %
phosphates (as PO ₄).....	max. 0,00005 %	isopropylether (G.C.).....	max. 0,01 %
sulfates (SO ₄).....	max. 0,0001 %	methanol (G.C.).....	max. 0,01 %
aluminium (Al).....	max. 0,1 ppm	n-propanol (G.C.).....	max. 0,1 %
antimony (Sb).....	max. 0,02 ppm	carbonyl compounds (as CO).....	max. 0,002 %
arsenic (As).....	max. 0,02 ppm	substances reducing KMnO ₄	passes test
barium (Ba).....	max. 0,01 ppm	substances darkened by H ₂ SO ₄	passes test
beryllium (Be).....	max. 0,02 ppm	residue on evaporation.....	max. 0,0002 %
bismuth (Bi).....	max. 0,1 ppm	water (K.F.).....	max. 0,05 %
boron (B).....	max. 0,02 ppm		
cadmium (Cd).....	max. 0,01 ppm	liquid chromatography suitability	
calcium (Ca).....	max. 0,1 ppm	absorbance.....	passes test
chromium (Cr).....	max. 0,02 ppm		
cobalt (Co).....	max. 0,02 ppm	min. transmission/max. absorbance	
copper (Cu).....	max. 0,02 ppm	in a 1,0 cm cell at	
gallium (Ga).....	max. 0,02 ppm	wavelength:	T(%) A (AU)
gold (Au).....	max. 0,02 ppm	207 nm.....	10 % 1,000 AU
indium (In).....	max. 0,02 ppm	217 nm.....	50 % 0,301 AU
iron (Fe).....	max. 0,1 ppm	232 nm.....	80 % 0,097 AU
lead (Pb).....	max. 0,1 ppm	242 nm.....	90 % 0,046 AU
magnesium (Mg).....	max. 0,02 ppm	260 nm.....	98 % 0,009 AU
manganese (Mn).....	max. 0,02 ppm		
molybdenum (Mo).....	max. 0,02 ppm	Microfiltered through membranes	
nickel (Ni).....	max. 0,02 ppm	of pore diameter 0,22 µm	

Physical data

- Density: 0,78 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -89,5 °C
- Boiling point: 82,4 °C
- Flash point: 12 °C
- Ignition temperature: 425 °C
- Vapour pressure: (20 °C) 43 hPa
- Viscosity: (20 °C) 2,27 mPas
- Dipolar moment: (20 °C) 1,66 Debye
- Dielectric const.: (25 °C) 18,3
- Saturation conc.: (20 °C) 105 g/m³
- Expl. limit (upper): 12,7 Vol%
- Expl. limit (lower): 2 Vol%
- pH(20 °C) ~ 7
- Hygroscopic

Safety - GHS**Signal Word:** Danger**Hazard Statements:**

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

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): 5045 mg/kg

• MAK: 200 ml/m³, 500 mg/m³

• WGK: 1

• Poison class CH (Swiss): F

Transport/storage

• ADR: 3 F1 II • UN 1219 • ISOPROPANOL (ISOPROPYL ALCOHOL)

• IMDG: 3 II • UN 1219 • ISOPROPYL ALCOHOL

• IATA/ICAO: 3 II • UN 1219 • ISOPROPYL ALCOHOL

• PAX: 353

• CAO: 364

• Store between 5°C and 30°C