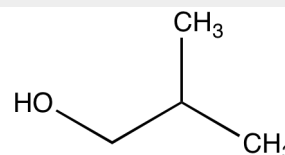


Identification

C₄H₁₀O
M = 74,12 g/mol
CAS [78-83-1]
EC number: 201-148-0
Taric code: 2905 14 90


Synonyms

2-Methyl-1-propanol, Isobutyl alcohol, Isopropylcarbinol, iso-Butanol

Applications

synthesis of organic products, perfumery, solvents (painting), analytical chemistry, laboratory reagent.

Specifications

assay (G.C.).....	min. 99,5 %	lead (Pb).....	max. 0,1 ppm
identity (IR-spectrum).....	passes test	magnesium (Mg).....	max. 0,1 ppm
density (20°/4°).....	0,801 - 0,802	manganese (Mn).....	max. 0,02 ppm
colour (Hazen).....	max. 10	nickel (Ni).....	max. 0,02 ppm
acidity.....	max. 0,0005 meq/g	tin (Sn).....	max. 0,1 ppm
solubility in water.....	passes test	zinc (Zn).....	max. 0,1 ppm
aluminium (Al).....	max. 0,5 ppm	n-butyl alcohol (G.C.).....	max. 0,1 %
boron (B).....	max. 0,02 ppm	isobutyraldehyde (G.C.).....	max. 0,05 %
barium (Ba).....	max. 0,1 ppm	n-butyraldehyde (G.C.).....	max. 0,01 %
cadmium (Cd).....	max. 0,05 ppm	2-butanol (G.C.).....	max. 0,05 %
calcium (Ca).....	max. 0,5 ppm	methylethylketone (G.C.).....	max. 0,02 %
chromium (Cr).....	max. 0,02 ppm	peroxides (as H ₂ O ₂).....	max. 0,001 %
cobalt (Co).....	max. 0,02 ppm	substances darkened by H ₂ SO ₄	passes test
copper (Cu).....	max. 0,02 ppm	residue on evaporation.....	max. 0,001 %
iron (Fe).....	max. 0,1 ppm	water (K.F.).....	max. 0,05 %

Physical data

- Density: 0,8 g/cm³
- Solub. in water: (20 °C): 80 g/l
- Melting point: -108 °C
- Boiling point: 108 °C
- Flash point: 28 °C
- Ignition temperature: 430 °C
- Vapour pressure: (20 °C) 12 hPa
- Refraction index: (n 20 °C/D) 1,3955
- Viscosity: (20 °C) 6,68 mPas
- Dipolar moment: (20 °C) 1,79 Debye
- Dielectric const.: (20 °C) 17,7
- Evap. heat: (108 °C) 577 KJ/kg
- Saturation conc.: (20 °C) 36 g/m³
- Expl. limit (upper): 12 Vol%
- Expl. limit (lower): 1,6 Vol%
- pH(80 g/l H₂O, 20 °C) 7

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H318: Causes serious eye damage.
H226: Flammable liquid and vapour.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H315: Causes skin irritation.


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): 2460 mg/kg
- MAK: 100 ml/m³, 310 mg/m³
- WGK: 1
- Poison class CH (Swiss): 4

Transport/storage

- ADR: 3 F1 III • UN 1212 • ISOBUTANOL (ISOBUTYL ALCOHOL)
- IMDG: 3 III • UN 1212 • ISOBUTYL ALCOHOL
- IATA/ICAO: 3 III • UN 1212 • ISOBUTYL ALCOHOL
- PAX: 309
- CAO: 310