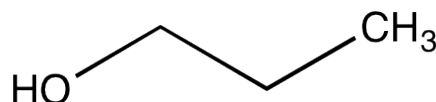


1-Propanol, for analysis, ExpertQ®

Identification

C₃H₈O
M = 60,10 g/mol
CAS [71-23-8]
EC number: 200-746-9
Taric code: 2905 12 00



Synonyms

n-Propyl alcohol, Ethylcarbinol, 1-Hydroxypropane, n-Propanol

Applications

analytical chemistry, solvents.

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°).....	0,803 - 0,805	lead (Pb).....	max. 0,1 ppm
appearance.....	clear	magnesium (Mg).....	max. 0,1 ppm
colour (Hazen).....	max. 10	manganese (Mn).....	max. 0,02 ppm
solubility in water.....	passes test	nickel (Ni).....	max. 0,02 ppm
acidity.....	max. 0,0004 meq/g	tin (Sn).....	max. 0,1 ppm
alkalinity.....	max. 0,0002 meq/g	zinc (Zn).....	max. 0,1 ppm
aluminium (Al).....	max. 0,5 ppm	acetone (G.C.).....	max. 0,01 %
barium (Ba).....	max. 0,1 ppm	ethanol (G.C.).....	max. 0,01 %
boron (B).....	max. 0,02 ppm	methanol (G.C.).....	max. 0,01 %
cadmium (Cd).....	max. 0,05 ppm	2-propanol (G.C.).....	max. 0,05 %
calcium (Ca).....	max. 0,5 ppm	aldehydes and ketones (as C ₂ H ₅ CHO).....	max. 0,03 %
chromium (Cr).....	max. 0,02 ppm	substances darkened by H ₂ SO ₄	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/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -127 °C
- Boiling point: 96,5 - 98 °C
- Flash point: 15 °C
- Ignition temperature: 405 °C
- Vapour pressure: (20 °C) 19 hPa
- Viscosity: (20 °C) 2,75 mPas
- Dipolar moment: (20 °C) 1,7 Debye
- Dielectric const.: (25 °C) 20,1
- Saturation conc.: (20 °C) 46 g/m³
- Expl. limit (upper): 13,5 Vol%
- Expl. limit (lower): 2,1 Vol%
- pH(200 g/l H₂O, 20 °C) 7

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H225: Highly flammable liquid and vapour.
H318: Causes serious eye damage.
H336: May cause drowsiness or dizziness.



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.
P310: Immediately call a POISON CENTER or doctor / physician.
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 1274 • n-PROPANOL (PROPYL ALCOHOL, NORMAL)
- IMDG: 3 II • UN 1274 • PROPYL ALCOHOL, NORMAL
- IATA/ICAO: 3 II • UN 1274 • PROPYL ALCOHOL, NORMAL
- PAX: 305
- CAO: 307
- 10°C - 30°C