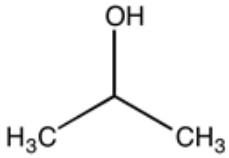
AL0321

2-Propanol, Multisolvent® HPLC grade ACS ISO UV-VIS

Identification

C_3H_8O
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 %
identity (IR-spectrum)	passes test
density (20º/4º)	0,784 - 0,786
appearance	clear
colour (Hazen)	max. 10
solubility in water	passes test
acidity	max. 0,0001 meq/g
alkalinity	max. 0,0001 meq/g
chlorides (Cl)	max. 0,00003 %
nitrates (NO3)	max. 0,00003 %
phosphates (as PO4)	max. 0,00005 %
sulfates (SO_4)	max. 0,0001 %
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. 0,1 ppm
boron (B)	max. 0,02 ppm
cadmium (Cd)	max 0,01 ppm
calcium (Ca)	max. 0,1 ppm
chromium (Cr)	max. 0,02 ppm
cobalt (Co)	max. 0,02 ppm
copper (Cu)	max. 0,02 ppm
gallium (Ga)	max. 0,02 ppm
gold (Au)	max. 0,02 ppm
indium (In)	max. 0,02 ppm
iron (Fe)	max. 0,1 ppm
lead (Pb)	max. 0,1 ppm
magnesium (Mg)	max. 0,02 ppm
manganese (Mn)	max. 0,02 ppm
molybdenum (Mo)	max. 0,02 ppm
nickel (Ni)	max. 0,02 ppm
platinum (Pt)	max. 0,02 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
acetone (G.C.)	max. 0,01 %
ethanol (G.C.)	max. 0,01 %
isopropylether (G.C.)	max. 0,01 %
methanol (G.C.)	max. 0,01 %
n-propanol (G.C.)	max. 0,1 %
carbonyl compounds (as CO)	max. 0,002 %
substances reducing KMnO4	passes test
substances darkened by H_2SO_4	passes test
residue on evaporation	max. 0,0002 %
water (K.F.)	max. 0,05 %

liquid chromatography suitability

absorbance	passes test

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

wavelength:	T(%)	A (AU)
207 nm	10 %	1,000 AU
217 nm	50 %	0,301 AU
232 nm	80 %	0,097 AU
242 nm	90 %	0,046 AU
260 nm	98 %	0,009 AU

Microfiltered through membranes
of pore diameter 0,22 µm

Physical data

- Density: 0,785 g/cm3
- Solub. in water: (20 ºC): miscible
- Melting point: -89,5 ºC
- Boiling point: 82,4 ºC
- Flash point: 12 ºC
- Ignition temperature: 425 ºC
- Vapour pressure: (20 ºC) 43 hPa
- Viscosity: (20 ºC) 2,27 mPas
- Dipolar moment: (20 ºC) 1,66 Debye
- Dielectric const.: (25 ºC) 18,3
- Saturation conc.: (20 ºC) 105 g/m^3
- Expl. limit (upper): 12,7 Vol%
- Expl. limit (lower): 2 Vol%
- pH(20 ºC) ~ 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.
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 1219 • ISOPROPANOL (ISOPROPYL ALCOHOL)
- IMDG: 3 II • UN 1219 • ISOPROPYL ALCOHOL
- IATA/ICAO: 3 II • UN 1219 • ISOPROPYL ALCOHOL
- PAX: 353
- CAO: 364
- 5°C - 30°C