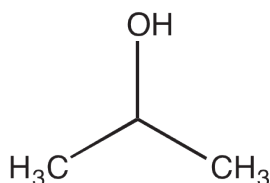


## 2-PROPANOL



- Synonyms: Isopropyl alcohol, Isopropanol, iso-Propanol, Dimethylcarbinol, 2-Hydroxypropane
- $C_3H_8O$
- $M = 60,10 \text{ g/mol}$
- CAS [67-63-0]
- EINECS-No.: 200-661-7
- Density:  $0,78 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point:  $-89,5 \text{ °C}$
- Boiling point:  $82,4 \text{ °C}$
- Flash pt.  $12 \text{ °C}$
- Ignition temp.:  $425 \text{ °C}$
- Vapour pressure: (20 °C)  $43 \text{ hPa}$

- Dielectric const.: (25 °C)  $18,3$
- LD 50 (oral, rat):  $5045 \text{ mg/kg}$
- EC-Index-No.: 603-117-00-0
- ADR: 3 F1 II UN 1219
- IMDG: 3 II UN 1219
- IATA/ICAO: 3 II UN 1219
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - H336
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2905 12 00 00
- Applications: solvents, in antifreeze compositions, cosmetics.

## AL0310 2-Propanol, EssentQ®



assay (G.C.) ..... min. 99,5 %  
 identity (IR-spectrum) ..... passes test  
 density (20°/20°) ..... 0,784 - 0,786  
 residue on evaporation ..... max. 0,005 %  
 water (K.F.) ..... max. 0,1 %

ART. NO.	VOLUME	CONTAINER
AL03101000	1 l	
AL03102500	2,5 l	
AL0310005P	5 l	
AL0310007E	7 l	

ART. NO.	VOLUME	CONTAINER
AL0310025P	25 l	
AL0310025S	25 l	
AL0310200L	200 l	

## AL0311 2-Propanol, extra pure, Pharpur®, Ph Eur, BP, USP



assay (G.C.) ..... min. 99,0 %  
 identification ..... passes test  
 density (25°/25°) ..... 0,783 - 0,787  
 appearance ..... clear and colourless  
 refractive index  $n_{20}^D$  ..... 1,376 - 1,378  
 acidity or alkalinity ..... passes test  
 acidity ..... passes test  
 peroxides ..... passes test  
 max. absorbance in a 1,0 cm cell at  
 wavelength ..... A (AU)  
 230 nm ..... 0,30 AU  
 250 nm ..... 0,10 AU

270 nm ..... 0,03 AU  
 290 nm ..... 0,02 AU  
 310 nm ..... 0,01 AU  
 benzene and related substances ..... passes test  
 volatile impurities ..... passes test  
 residue on evaporation ..... max. 20 ppm  
 water (K.F.) ..... max. 0,5 %  
 Elemental impurities are analysed according to guideline  
 CHMP/ICH/353369/2013.  
 Residual solvents are analysed according to guideline  
 CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
AL03111000	1 l	
AL03112500	2,5 l	
AL0311005P	5 l	
AL0311025A	25 l	
AL0311025P	25 l	
AL0311200L	200 l	

## AL0312 2-Propanol, ExpertQ®, for analysis, ACS, ISO, Reag. Ph Eur



assay (G.C.) ..... min. 99,8 %  
 identity (IR-spectrum) ..... passes test  
 appearance ..... clear  
 density (20°/4°) ..... 0,784 - 0,786  
 density (20°/20°) ..... 0,785 - 0,789  
 boiling point ..... 81- 83 °C  
 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 (NO<sub>3</sub>) ..... max. 0,00003 %  
 phosphates (as PO<sub>4</sub>) ..... max. 0,00005 %  
 sulfates (SO<sub>4</sub>) ..... max. 0,0001 %  
 aluminium (Al) ..... max. 0,5 ppm  
 antimony (Sb) ..... max. 0,02 ppm  
 arsenic (As) ..... max. 0,02 ppm  
 barium (Ba) ..... max. 0,1 ppm  
 beryllium (Be) ..... max. 0,02 ppm  
 bismuth (Bi) ..... max. 0,1 ppm  
 boron (B) ..... max. 0,02 ppm  
 cadmium (Cd) ..... max. 0,05 ppm  
 calcium (Ca) ..... max. 0,5 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  
 lithium (Li) ..... max. 0,05 ppm  
 magnesium (Mg) ..... max. 0,1 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  
 tin (Sn) ..... max. 0,1 ppm  
 thallium (Tl) ..... max. 0,02 ppm  
 titanium (Ti) ..... max. 0,02 ppm  
 vanadium (V) ..... max. 0,02 ppm  
 zinc (Zn) ..... max. 0,1 ppm  
 zirconium (Zr) ..... max. 0,02 ppm  
 acetone (G.C.) ..... max. 0,002 %  
 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 %  
 propionaldehyde ..... max. 0,002 %  
 substances reducing KMnO<sub>4</sub> ..... passes test  
 substances darkened by H<sub>2</sub>SO<sub>4</sub> ..... passes test  
 residue on evaporation ..... max. 0,001 %  
 water (K.F.) ..... max. 0,05 %

ART. NO.	VOLUME	CONTAINER
AL03121000	1 l	
AL03122500	2,5 l	
AL0312005P	5 l	
AL0312007E	7 l	
AL0312010C	10 l	
AL0312025P	25 l	
AL0312025S	25 l	
AL0312025B	25 l	
AL0312030S	30 l	
AL0312200L	200 l	