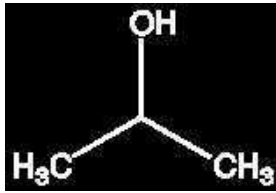


## 2-PROPANOL



- 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, Phampur®, 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	Ⓔ