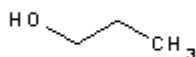




**PRODUCT CODE: 361885**

**1-Propanol for UV, IR, HPLC**

C<sub>3</sub>H<sub>8</sub>O  
CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>OH



M.= 60,10

CAS [71-23-8]

EINECS 200-746-9

TARIC 2905 12 00 00

FEMA 2928

**SYNONYMS:** n-Propanol, n-Propyl alcohol

**PHYSICAL DATA:** liquid, Clear, Colourless, Miscible with water, alcohol, ether and trichloromethane. • D 20/4 0,8035 • M.P.: -126,5 °C • B.P.: 97,4 °C • n<sub>20/D</sub> : 1,385 • Flash P.:15 °C • Ign. T.:405 °C • Vap. press. (20 °C) 18,7 hPa • Viscosity 20 °C 2,75 mPa.s • D. M. 20 °C 1,7 Debye • Dielec. constant 25 °C 20,1 • Evap. number (DIN 53170) 17 • Heat evap. 97 °C 681 KJ/Kg • Satur. conc. 20 °C 46 g/m<sup>3</sup> • Expl. limit 2,1 %(V) 13,5 %(V) •

**BIBLIOGRAPHY:** Merck Index **13**, 7.934 Sax **PND000** • Safety **2**, **2951 D** • Kühn-Birett **P 36** • Ullmann (**4.**)19 , 443 • Beilstein **1**, **350 I**, **175 II**, **360 III**, **1397 IV**, **1413** • BRN 1098242 • ACS **XI** • BP.**2018** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **11** • Directive 2009/32/CE •

**HAZARDOUS:** C.E: 603-003-00-0 • RTECS: UH 8225000 • LD L0 oral wmn 5.700 mg/kg • LD50 oral rat 1.870 mg/kg • LC50 mus 48000mg/m<sup>3</sup> • LD50 skn rbt 5.040 mg/kg • VLA-EC 250 ppm 625 mg/m<sup>3</sup> VLA-ED 200 ppm 500 mg/m<sup>3</sup>



H: H225 • H318 • H336 •

P: P210 • P233 • P240 • P241 • P242 • P243 • P261 • P271 • P280 • P303+P361+P353 • P304+P340 • P305+P351+P338 • P310 • P312 • P370+P378 • P403+P233 • P403+P235 • P405 • P501 •

**TRANSPORT REGULATIONS:** UN: 1274 • ADR: 3/II • IMDG: 3/II • IATA: 3/II • PAX: 353 • CAO: 364 • (D/E) •

**WEIGHT/VOLUME INFORMATION:** 1l~0,804 kg 1kg~1,244 l

**SPECIFICATIONS:**

Minimum assay (G.C.)	99,8%
Density at 20/4	0,803-0,805
<b>Maximum limit of impurities</b>	
APHA colour	10
Acidity	0,0002 meq/g
Alkalinity	0,0002 meq/g
Non-volatile matter	0,0002 %
Water (H <sub>2</sub> O)	0,1 %
Suitability for IR spectrometry:	passes test
UV Spectrum (1cm cell; Ref.: water):	
Transmittance at 208 (Cut off) nm	<sup>3</sup> 10 %
Transmittance at 210 nm	<sup>3</sup> 15 %
Transmittance at 230 nm	<sup>3</sup> 70 %
Transmittance at 240 nm	<sup>3</sup> 80 %
Transmittance at 250 nm	<sup>3</sup> 94 %
Transmittance at 260-400 nm	<sup>3</sup> 98 %
Data of interest in HPLC:	
Rohrschneider Polarity	4,0
Elutropic value E° (Al <sub>2</sub> O <sub>3</sub> )	0,82
Sol. H <sub>2</sub> O in solv. at 20°C	miscible

**For critical jobs, purge with nitrogen.**

**Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.**