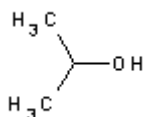
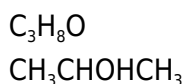




PRODUCT CODE: 131090

2-Propanol (Reag. Ph. Eur.) for analysis, ACS, ISO



M.= 60,10

CAS [67-63-0]

EINECS 200-661-7

TARIC 2905 12 00 00

SYNONYMS: Dimethylcarbinol, IPA, Isopropanol, iso-Propyl Alcohol, sec-Propyl Alcohol

PHYSICAL DATA: liquid, Clear, Colourless, Miscible with water, alcohol, ether and trichloromethane. • Hygroscopic • D 20/20 0,785 • M.P.: -88,5 °C • B.P.: 82,5 °C • n_{20/D} : 1,3772 • Flash P.:11,7 °C • Ign. T.:425 °C • Vap. press. (20 °C) 43 hPa • Viscosity 20 °C 2,27 mPa.s • D. M. 20 °C 1,66 Debye • Dielec. constant 25 °C 18,3 • Heat evap. 82 °C 667 KJ/Kg • Satur. conc. 20 °C 105 g/m³ • Expl. limit 2 % (V) 12 % (V) •

BIBLIOGRAPHY: Merck Index **13**, 5.228 Sax **INJ000** • Safety **2**, **2952 B** • Kühn-Birett **P 35** • Ullmann **(4.)**19, 433 • Beilstein **1**, **360 I**, **183 II**, **375 III**, **1439 IV**, **1461** • BRN 635639 • ACS **XI** • ISO 6353/3-1987R - 87, 62 • BP. **2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** • Directive 88/344/E.C.E.92/115/E.C.E.94/52/EC97/60/EC (27/10/1997) 2009/32/CE • Royal Decree 472/1990 (6/4/1990), 2667/1998 (11 /12/1998), 1101/2011 (22/7/2011), JP XVI •

HAZARDOUS: C.E: 603-117-00-0 • RTECS: NT 8050000 • LD₅₀ oral rat >2.000 mg/kg • LC₅₀ rat >20 mg/l / 8h • LD₅₀ skn rbt >2.000 mg/kg • VLA-ED 200 ppm500 mg/m³ VLA-EC (Spain) 400 ppm1.000 mg/m³

Derived No Effect Level (DNEL)

Workers Dermal, long exposure (systemic) 888mg/kg Workers Inhalation, long term (systemic) 500 mg/m³
 Population, Dermal, long exposure (systemic) 319mg/kg Population Inhalation, long term (systemic) 89 mg/m³
 Population, oral, long term (systemic) 26mg/kg

Predicted No Effect Concentration (PNEC)

Freshwater 140.9mg/l Marine water 140.9mg/l Freshwater Sediment 552mg/kg Marine water Sediment 552mg/kg Soil 28mg/kg



H: H225 • H319 • H336 •
P: P243 • P261 • P271 • P303+P361+P353 • P304+P340 • P305+P351+P338 •

TRANSPORT REGULATIONS: UN: 1219 • ADR: 3/II • IMDG: 3/II • IATA: 3/II • PAX: 353 • CAO: 364 • (D/E) •

WEIGHT/VOLUME INFORMATION: 1l~0,785 kg 1kg~1,274 l

OBSERVATIONS: Storage away from direct light. •

SPECIFICATIONS:

Minimum assay (G.C.)	99,8%
Identity :	
Identity	IR passes test
Density at 20/4	0,784-0,786
Range of Boiling	81-83°C

Maximum limit of impurities

APHA colour	10
Acidity	0,0001 meq/g
Alkalinity	0,0001 meq/g
Insoluble matter in H2O	passes test
Non-volatile matter	0,001 %
Reducing substance to KMnO4 (as O)	0,0005 %
Darkened substances by H2SO4	passes test
Carbonyl compounds (as Propionaldehyde)	0,002%
Carbonyl compounds (as Acetone)	0,002%
Acetone (G.C.)	0,002%
Ethanol (G.C.)	0,01%
1-Propanol (G.C.)	0,05%
Methanol (G.C.)	0,05%
Water (H2O)	0,1 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0,05
Al	0,5
As	0,05
Au	0,05
B	0,02
Ba	0,1
Be	0,02
Bi	0,05
Ca	0,2
Cd	0,05
Co	0,02
Cr	0,02
Cu	0,02
Fe	0,1
Ga	0,02
Ge	0,05
Hg	0,05
In	0,05
K	0,1

Li	0,05
Mg	0,1
Mn	0,02
Mo	0,02
Na	0,1
Ni	0,02
P	0,2
Pb	0,02
Pt	0,02
S	0,2
Sb	0,02
Si	0,2
Sn	0,1
Sr	0,2
Ti	0,02
Tl	0,02
V	0,02
Zn	0,1
Zr	0,02

Ed.: 5 . Vig.: 04.09.2013 .

Prod.: 131090