

PRODUCT CODE: 131091

Methanol (Reag. USP, Ph. Eur.) for analysis, ACS, ISO

CH₄O

CH₃OH

M.= 32,04

CAS [67-56-1]

EINECS 200-659-6

TARIC 2905 11 00 10

SYNONYMS: Carbinol, Methyl Alcohol

PHYSICAL DATA: liquid, Clear, Colourless, Miscible with water, alcohol, ether and methylene chloride • Hygroscopic • D 20/4 0,7915 • M.P.: -97,8 °C • B.P.: 64 - 65 °C • n₂₀/D : 1,3292 • Flash P.:12 °C • Ign. T.:455 °C • Vap. press. (20 °C) 128 hPa • Viscosity 20 °C 0,52 mPa.s • D. M. 20 °C 1,7 Debye • Dielec. constant 25 °C 32,6 • Evap. number (DIN 53170) 6,3 • Heat evap. 65 °C 1100 KJ/Kg • Satur. conc. 20 °C 166 g/m³ • Expl. limit 5,5 % (V) 44 % (V) •

BIBLIOGRAPHY: Merck Index **13**, 5.984 Sax **MDS250** • Safety **2**, **2281 C** • Kühn-Birett **M 10** • Ullmann **(5.)5**, 212 • Beilstein **1**, **273 I**, **131 II**, **252 III**, **1147 IV**, **1127** • BRN 1098229 • ACS **XI** • ISO 6353/2-1983R - 18, 25 • BP.**2021** • USP **-NF 37** • Ph. Eur. 5.2, 3234 **10.0** (2020) 5.2, 3234 • F.C.C **11 12** • 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) •

HAZARDOUS: C.E: 603-001-00-X • RTECS: PC 1400000 • LD₅₀ oral rat 1.187 - 2.769 mg/kg • LC₅₀ rat 128,2 mg/l / 4h • LD₅₀ skn rbt 17.100 mg/kg • VLA-ED 200 ppm 266 mg/m³



H: H225 • H331 • H311 • H301 • H370 •

P: P280 • P210 • P233 • P309 • P310 • P302+P352 • P501 •

TRANSPORT REGULATIONS: UN: 1230 • ADR: 3(6.1)/II • IMDG: 3(6.1)/II • IATA: 3(6.1)/II • PAX: 352 • CAO: 364 • (D/E) •

WEIGHT/VOLUME INFORMATION: 1l-0,792 kg 1kg-1,263 l

SPECIFICATIONS:

Minimum assay (G.C.)

99,9%

Identity :	
Identity	IR passes test
Density at 20/4	0,791-0,792

Maximum limit of impurities

APHA colour	10
Acidity	0,0002 meq/g
Alkalinity	0,0002 meq/g
Insoluble matter in H2O	passes test
Non-volatile matter	0,0005 %
Reducing substance to KMnO4 (as O)	0,00025 %
Darkened substances by H2SO4	passes test
Carbonyl compounds (as CH3COCH3)	0,002%
Acetaldehyde (CH3CHO)	0,001%
Acetone (G.C.)	0,001%
Formaldehyde (HCHO)	0,001%
Ethanol (G.C.)	0,005%
2-Propanol (G.C.)	0,005%
Water (H2O)	0,05 %

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	0,1
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	0,05
Mn	0,02
Mo	0,02
Na	0,5
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

