

**PRODUCT CODE: 362006****n-Pentane for UV, IR, HPLC** C_5H_{12} C_5H_{12} 

M.= 72,15

CAS [109-66-0]

EINECS 203-692-4

TARIC 2901 10 00 00

PHYSICAL DATA: liquid, Clear, Colourless, Soluble in water 0,36 g/l at 20 °C D 20/4 0,63 • M.P.: -129,7 °C • B.P.: 36,1 °C • n_{20/D} : 1,3577 • Flash P.: -40 °C • Ign. T.:285 °C • Vap. press. (20 °C) 573 hPa • Viscosity 25 °C 0,22 mPa.s • Dielec. constant 20 °C 1,84 • Heat evap. 36 °C 383 KJ/Kg • Satur. conc. 20 °C 1698 g/m³ • Expl. limit 1,4 % (V) 7,8 % (V) •

BIBLIOGRAPHY: Merck Index **12**, 7.255 13, 7.193 Sax **PBK250** • Safety **2** , **2711 A** • Kühn-Birett **P 4** • Ullmann (5.)13 , 232 • Beilstein **1** , **130 I** , **42 II** , **92 III** , **328 IV** , **303** • BRN 969132 •

HAZARDOUS: C.E: 601-006-00-1 • RTECS: RZ 9450000 • LC L0 mus 325mg/m³ / 2h • LC L0 rat 325g/m³ / 2h • VLA-ED 1.000 ppm 3.000 mg/m³



H: H225 • H304 • EUH066 • H336 • H411 •

P: P210 • P233 • P240 • P241 • P242 • P243 • P261 • P271 • P273 • P280 • P301+P310 • P303+P361+P353 • P304+P340 • P312 • P331 • P370+P378 • P391 • P403+P233 • P403+P235 • P405 • P501 •

TRANSPORT REGULATIONS: UN: 1265 • ADR: 3/II • IMDG: 3/II • IATA: 3/II • PAX: 353 • CAO: 364 • (D/E) •

WEIGHT/VOLUME INFORMATION: 1l~0,626 kg 1kg~1,597 l

SPECIFICATIONS:

Minimum assay (G.C.)	99,5%
Density at 20/4	0,624-0,628
Maximum limit of impurities	
APHA colour	10
Acidity	0,0005 meq/g
Alkalinity	0,0002 meq/g
Non-volatile matter	0,0003 %
Water (H ₂ O)	0,005 %
Suitability for IR spectrometry:	passes test
Fluorescence at 254 nm (as quinine)	1 ppb
Fluorescence at 365 nm (as quinine)	1 ppb
UV Spectrum (1cm cell; Ref.: water):	
Transmittance at 195 (Cut off) nm	³ 10 %
Transmittance at 200 nm	³ 40 %
Transmittance at 210 nm	³ 70 %
Transmittance at 215 nm	³ 80 %
Transmittance at 220 nm	³ 90 %
Transmittance at 240-400 nm	³ 98 %
Data of interest in HPLC:	
P' + 0,25 E	0,5
Rohrschneider Polarity	0,0
Eluotropic value E° (Al ₂ O ₃)	0,00
Sol. H ₂ O in solv. at 20°C	0,01

For critical jobs, purge with nitrogen.

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