

**PRODUCT CODE: 362062****n-Heptane for UV, IR, HPLC**C<sub>7</sub>H<sub>16</sub>C<sub>7</sub>H<sub>16</sub>

M.= 100,21

CAS [142-82-5]

EINECS 205-563-8

TARIC 2901 10 00 00

**PHYSICAL DATA:** liquid, Clear, Colourless, Immiscible with water. • D 20/4 0,6837 • M.P.: -90,6 °C • B.P.: 98,4 °C • n<sub>20</sub>/D : 1,3878 • Flash P.: -4 °C • Vap. press. (20 °C) 48 hPa • Viscosity 25 °C 0,4 mPa.s • Dielec. constant 20 °C 1,9 • Heat evap. 98 °C 373 KJ/Kg • Satur. conc. 20 °C 196 g/m<sup>3</sup> • Expl. limit 1,1 %(V) 6,7 %(V) •

**BIBLIOGRAPHY:** Merck Index **12**, 4.694 13, 4.679 Sax **HBC500** • Safety **2** , **1821 C** • Kühn-Birett **H 1** • Ullmann **(5.)13** , 231 • Beilstein **1** , **154 I** , **56 II** , **114 III** , **415 IV** , **376** • BRN 1730763 •

**HAZARDOUS:** C.E: 601-008-00-2 • RTECS: MI 7700000 • LD50 oral rat >2.000 mg/kg • LD50 skn rbt 3.400 mg/kg • VLA-ED 500 ppm 2.085 mg/m<sup>3</sup> Factor for short-term value (Germany) 8



H: H225 • H315 • H304 • H336 • H410 •

P: P210 • P240 • P273 • P301+P310 • P331 • P501 • P403+P235 •

**TRANSPORT REGULATIONS:** UN: 1206 • ADR: 3/II • IMDG: 3/II • IATA: 3/II • PAX: 353 • CAO: 364 • (D/E) •

**WEIGHT/VOLUME INFORMATION:** 1l~0,684 kg      1kg~1,462 l

**SPECIFICATIONS:**

Minimum assay (G.C.)

99,0%

Density at 20/4	0,683-0,685
<b>Maximum limit of impurities</b>	
APHA colour	10
Acidity	0,0002 meq/g
Alkalinity	0,0002 meq/g
Non-volatile matter	0,0003 %
Water (H <sub>2</sub> 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 200 (Cut off) nm	<sup>3</sup> 20 %
Transmittance at 210 nm	<sup>3</sup> 50 %
Transmittance at 220 nm	<sup>3</sup> 80 %
Transmittance at 230 nm	<sup>3</sup> 92 %
Transmittance at 245-400 nm	<sup>3</sup> 98 %
Data of interest in HPLC:	
P' + 0,25 E	0,5
Rohrschneider Polarity	0,2
Eluotropic value E° (Al <sub>2</sub> O <sub>3</sub> )	0,01
Sol. H <sub>2</sub> O in solv. at 20°C	0,01

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

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