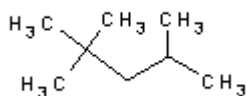


PRODUCT CODE: 362064

Isooctane for UV, IR, HPLC, ACS

C₈H₁₈

C₈H₁₈



M.= 114,23

CAS [540-84-1]

EINECS 208-759-1

TARIC 2901 10 00 00

SYNONYMS: 2,2,4-Trimethylpentane, iso-Butyltrimethylmethane, iso-Octane

PHYSICAL DATA: liquid, Clear, Colourless, Immiscible with water. • D 20/4 0,69 • M.P.: -107,4 °C • B.P.: 99,3 °C • n₂₀/D : 1,3916 • Flash P.: -12 °C • Viscosity 25 °C 0,47 mPa.s • D. M. 20 °C 0 Debye • Dielec. constant 20 °C 1,94 • Evap. number (DIN 53170) 2,3 • Heat evap. 99 °C 334 KJ/Kg • Satur. conc. 20 °C 236 g/m³ • Expl. limit 1,1 % (V) 6 % (V) •

BIBLIOGRAPHY: Merck Index **12**, 5.210 13, 5.212 Sax **TLI500** • Safety **2**, **3491 A** • Kühn-Birett **O 9** • Ullmann **(5.)4**, 486 • Beilstein **1**, **II**, **127 III**, **492 IV**, **439** • BRN 1696876 • ACS **XI** •

HAZARDOUS: C.E: 601-009-00-8 • RTECS: SA 3320000 •

Derived No Effect Level (DNEL)

Population, oral, long term (systemic) 699mg/kg bw/24h Population, Dermal, long exposure (systemic) 699mg/kg bw/24h Workers Dermal, long exposure (systemic) 773mg/kg bw/24h Population Inhalation, long term (systemic) 608 mg/m³ Workers Inhalation, long term (systemic) 2.035 mg/m³



H: H225 • H315 • H304 • H336 • H410 •

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

TRANSPORT REGULATIONS: UN: 1262 • ADR: 3/II • IMDG: 3/II • IATA: 3/II • PAX: 353 • CAO: 364 • (D/E) •

WEIGHT/VOLUME INFORMATION: 1l~0,69 kg 1kg~1,44 l

SPECIFICATIONS:

Minimum assay (G.C.)	99,5%
Density at 25/4	<= 0,690
Maximum limit of impurities	
APHA colour	10
Acidity	0,0002 meq/g
Alkalinity	0,0002 meq/g
Non-volatile matter	0,0003 %
Sulfur compounds (as S)	0,005 %
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 205 (Cut off) nm	≥ 10 %
Transmittance at 210 nm	≥ 50 %
Transmittance at 220 nm	≥ 80 %
Transmittance at 235 nm	≥ 90 %
Transmittance at 245-400 nm	≥ 98 %
Data of interest in HPLC:	
P' + 0,25 E	0,1
Rohrschneider Polarity	0,1
Elutropic value E° (Al ₂ O ₃)	0,01
Sol. H ₂ O in solv. at 20°C	0,011

For critical jobs, purge with nitrogen.

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