



>>Entry Name: 1-Nonanol, 9CI

ENTRY UNDER REVIEW

Synonym(s): Nonyl alcohol, 8CI. FEMA 2789

CAS Registry Number: 143-08-8

Related CAS Registry Numbers(s): 143-13-5 27458-94-2

Extra CAS Registry Numbers(s): 28473-21-4

$\text{H}_3\text{C}(\text{CH}_2)_7\text{CH}_2\text{OH}$

Molecular Formula: $\text{C}_9\text{H}_{20}\text{O}$

Molecular Weight: 144.256

Accurate Mass: 144.151415

Percentage Composition: C 74.94%; H 13.97%; O 11.09%

Biological Source: Widespread in nature. Occurs in oils of orange, citronella and lemon. Also found in cheese, tobacco, prickly pears and bread

Use/Importance: Used in rose perfume, cologne waters, and the manuf. of artificial lemon oil. Flavouring agent

Physical Description: Colourless to yellow liq. with odour of citronella oil

Melting Point: Fp -5°

Boiling Point: Bp 215° . Bp_{7.5} 95.6°

Solubility: Misc. EtOH, Et₂O, prac. insol. H₂O

Density: d_4^{20} 0.8284

Refractive Index: n_D^{20} 1.4330

Other Data: Isononanol (Nonanol N) is a mixt. of nonanol isomers marketed as a solvent

Hazard & Toxicity: LD₅₀ (mus, orl) 6400 mg/kg

Aldrich: W27890-4

Fluka: 74278

Sigma: N1754

>>Derivative: Ac

Synonym(s): FEMA 2788

CAS Registry Number: 143-13-5

Molecular Formula: $\text{C}_{11}\text{H}_{22}\text{O}_2$

Molecular Weight: 186.294

Accurate Mass: 186.16198

Percentage Composition: C 70.92%; H 11.90%; O 17.18%

Source/Synthesis: Isol. from various plant oils

Physical Description: Liq.

Boiling Point: Bp $223.6-224.3^\circ$. Bp₁₀ $101-102^\circ$

Aldrich: W27880-7

Rare Chemicals Library: S36425-8

Sigma: N1129

>>Derivative: 2-Methylpropanoyl

Synonym(s): Nonyl 2-methylpropanoate, 9CI

CAS Registry Number: 10522-34-6

Molecular Formula: $\text{C}_{13}\text{H}_{26}\text{O}_2$

Molecular Weight: 214.347

Accurate Mass: 214.19328

Percentage Composition: C 72.85%; H 12.23%; O 14.93%

Use/Importance: Used in perfumery

Boiling Point: Bp 220°

Density: d 0.86

>>Derivative: Octanoyl

Synonym(s): Nonyl octanoate. Nonyl caprylate. FEMA 2790