



>>Entry Name: 2-Nonanone, 9CI

ENTRY UNDER REVIEW

Synonym(s): FEMA 2785

CAS Registry Number: 821-55-6

$\text{H}_3\text{C}(\text{CH}_2)_6\text{COCH}_3$

Molecular Formula: $\text{C}_9\text{H}_{18}\text{O}$

Molecular Weight: 142.241

Accurate Mass: 142.135765

Percentage Composition: C 76.00%; H 12.75%; O 11.25%

Biological Source: Present in banana, strawberry, jam, ginger, Brazilnut, attar of rose, clove oil, oil of rue, coconut oil, passionflowers, sorghum, asparagus, tomato, corn, wine, cheese, beer etc. Acts as an alarm pheromone in ants, hornets and honeybees. Constit. of temporal gland secretions of *Elephas maximus* (Asian elephant)

Use/Importance: Has weak bactericidal activity

Physical Description: Oil with rue-like odour and rose/tea-like flavour

Melting Point: Fp -15°

Boiling Point: Bp $194-196^\circ$. Bp₁₂ $75-77^\circ$

Refractive Index: n_D^{20} 1.4175

Hazard & Toxicity: LD₅₀ (rat, oral) 3200 mg/kg

Aldrich: W27850-5

Fluka: 52000

>>Derivative: Oxime

CAS Registry Number: 52435-37-7

Molecular Formula: $\text{C}_9\text{H}_{19}\text{NO}$

Molecular Weight: 157.255

Accurate Mass: 157.146664

Percentage Composition: C 68.74%; H 12.18%; N 8.91%; O 10.17%

Physical Description: Liq. or cryst.

Melting Point: Mp 16°

Boiling Point: Bp₁₅ 131°

>>Derivative: Semicarbazone

CAS Registry Number: 818-06-4

Physical Description: Solid

Melting Point: Mp $119-120^\circ$

References:

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