



>>Entry Name: 5-Nonanone, 9CI

Synonym(s): Dibutyl ketone. Butyl ketone

CAS Registry Number: 502-56-7

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

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%

Physical Description: Liq.

Boiling Point: Bp 181-182°. Bp₂₂ 88°

Density: d_4^{20} 0.827

Refractive Index: n_D^{20} 1.4190

Hazard & Toxicity: Fl. p. 66°

Aldrich: 13694-8

Fluka: 34720

>>Derivative: Oxime

CAS Registry Number: 14475-42-4

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.

Melting Point: Mp -6.7°

Boiling Point: Bp₁₅ 124.5°

>>Derivative: Semicarbazone

Physical Description: Cryst. or plates

Melting Point: Mp 90°

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 3657-08-7

Physical Description: Cryst.

Melting Point: Mp 40.5-41°

References:

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