



---

>>Entry Name: 1-Phenyl-1-dodecanone, 9CI

Synonym(s): Dodecanoylbenzene. Dodecanophenone. Lauropenone. Lauroylbenzene. Phenyl undecyl ketone. 1-Benzoylundecane

CAS Registry Number: 1674-38-0

$\text{PhCO}(\text{CH}_2)_{10}\text{CH}_3$

Molecular Formula:  $\text{C}_{18}\text{H}_{28}\text{O}$

Molecular Weight: 260.419

Accurate Mass: 260.214015

Percentage Composition: C 83.02%; H 10.84%; O 6.14%

Melting Point: Mp 42.5°. Mp 47°

Boiling Point: Bp<sub>5</sub> 187°

Aldrich: 25271-9

>>Derivative: Oxime

Melting Point: Mp 63°

>>Derivative: Semicarbazone

Melting Point: Mp 94.5-95°

#### References:

*Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **2**, 10D, (*ir*)

*Aldrich Library of FT-IR Spectra: Vapor Phase*, 1989, **3**, 1231A, (*ir*)

Gilman, H. *et al.*, *J.O.C.*, 1943, **8**, 126, (*synth*)

Granito, C. *et al.*, *J.O.C.*, 1963, **28**, 879, (*synth*)

Hegedus, L.S. *et al.*, *J.A.C.S.*, 1975, **97**, 5448, (*synth*)