



>>Entry Name: 3,3-Dimethylcyclohexanone, 9CI

CAS Registry Number: 2979-19-3

Structure by analogy with 1,3-Dimethylcyclohexene, [CZR61-M](#)

Molecular Formula: C₈H₁₄O

Molecular Weight: 126.198

Accurate Mass: 126.104465

Percentage Composition: C 76.14%; H 11.18%; O 12.68%

Physical Description: Liq.

Boiling Point: Bp₇₄₈ 179°. Bp₈ 54°

Density: d₄¹⁵ 0.909

Refractive Index: n_D¹⁷ 1.4482

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 141°

>>Derivative: Semicarbazone

Melting Point: Mp 219°

References:

v. Auwers, K. *et al.*, *Annalen*, 1913, **401**, 325, (*synth*)

Pelletier, S.W. *et al.*, *J.O.C.*, 1976, **41**, 1069, (*synth, ir, pmr*)

House, H.O. *et al.*, *J.O.C.*, 1976, **41**, 4031; 1978, **43**, 700, (*synth*)

Crandall, J.K., *J.O.C.*, 1979, **44**, 1184