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>>Entry Name: 4,4-Dimethylcyclohexanone, 9CI

CAS Registry Number: 4255-62-3

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

Molecular Formula: C<sub>8</sub>H<sub>14</sub>O

Molecular Weight: 126.198

Accurate Mass: 126.104465

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

Melting Point: Mp 38-40°

Boiling Point: Bp<sub>14</sub> 73°

Density: d<sub>4</sub><sup>20</sup> 0.932

Refractive Index: n<sub>D</sub><sup>24</sup> 1.4537

>>Derivative: Semicarbazone

Melting Point: Mp 204°

#### References:

v. Auwers, K. *et al.*, *Annalen*, 1913, **401**, 315, (*synth*)

Miller, R.F. *et al.*, *J.A.C.S.*, 1936, **58**, 787, (*synth*)

Herrero, R.G. *et al.*, *Bull. Soc. Chim. Fr.*, 1973, 2231, (*uv*)

Torri, J. *et al.*, *Bull. Soc. Chim. Fr.*, 1974, 1633, (*cmr*)

Licharot, A. *et al.*, *Cryst. Struct. Commun.*, 1977, **6**, 127, (*cryst struct*)

Mueller, R.H. *et al.*, *J.O.C.*, 1978, **43**, 4647, (*synth*)