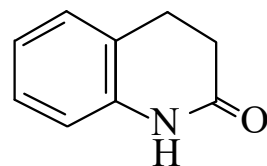




>>Entry Name: 3,4-Dihydro-2(1*H*)-quinolinone

Synonym(s): 1,2,3,4-Tetrahydro-2-oxoquinoline. 3,4-Dihydrocarbostyryl. Hydrocarbostyryl



CAS Registry Number: 553-03-7

Molecular Formula: C₉H₉NO

Molecular Weight: 147.176

Accurate Mass: 147.068414

Percentage Composition: C 73.45%; H 6.16%; N 9.52%; O 10.87%

Melting Point: Mp 165-166°

Aldrich: 41593-6

>>Derivative: *N*-Benzoyl

Molecular Formula: C₁₆H₁₃NO₂

Molecular Weight: 251.284

Accurate Mass: 251.094629

Percentage Composition: C 76.48%; H 5.21%; N 5.57%; O 12.73%

Melting Point: Mp 155-158°

>>Derivative: *N*-Me

CAS Registry Number: 826-72-2

Molecular Formula: C₁₀H₁₁NO

Molecular Weight: 161.203

Accurate Mass: 161.084064

Percentage Composition: C 74.51%; H 6.88%; N 8.69%; O 9.93%

Physical Description: Oil

Boiling Point: Bp₁₅ 160°

>>Derivative: *N*-OH

CAS Registry Number: 771-19-7

Molecular Formula: C₉H₉NO₂

Molecular Weight: 163.176

Accurate Mass: 163.063329

Percentage Composition: C 66.25%; H 5.56%; N 8.58%; O 19.61%

Use/Importance: Shows antibacterial activity

Physical Description: Cryst.

Melting Point: Mp 117-118°

References:

Blout, E.R. *et al.*, *J.A.C.S.*, 1944, **66**, 1442, (*synth*)

Ogata, Y. *et al.*, *J.O.C.*, 1971, **36**, 3975

Murahashi, S.-I. *et al.*, *Chem. Comm.*, 1987, 1471, (*deriv, synth, pmr*)

Bordwell, F.G. *et al.*, *J.O.C.*, 1991, **56**, 4218, (*synth, pmr*)