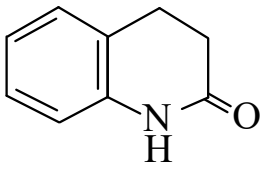
>>**Entry Name: 3,4-Dihydro-2(1*H*)-quinolinone**
Synonym(s): 1,2,3,4-Tetrahydro-2-oxoquinoline. 3,4-Dihydrocarbostyril. Hydrocarbostyril



CAS Registry Number: 553-03-7

Molecular Formula: C_9H_9NO
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: $C_{16}H_{13}NO_2$
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: $C_{10}H_{11}NO$
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: Bp_{15} 160°

>>**Derivative:** *N*-OH

CAS Registry Number: 771-19-7
Molecular Formula: $C_9H_9NO_2$
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)*