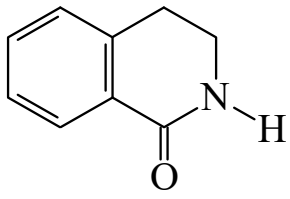
>>**Entry Name: 3,4-Dihydro-1(2*H*)-isoquinolinone,** 9CI
Synonym(s): 3,4-Dihydroisocarbostyril. 1-Oxo-1,2,3,4-tetrahydroisoquinoline



CAS Registry Number: 1196-38-9

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%
Physical Description: Cryst. (MeOH aq.)
Melting Point: Mp 58°
Boiling Point: $Bp_{0.1}$ 125-127°

>>**Derivative:** *N*-Ac

CAS Registry Number: 74315-06-3
Molecular Formula: $C_{11}H_{11}NO_2$
Molecular Weight: 189.213
Accurate Mass: 189.078979
Percentage Composition: C 69.83%; H 5.86%; N 7.40%; O 16.91%
Physical Description: Cryst. (EtOAc/hexane)
Melting Point: Mp 97-98°

>>**Derivative:** *N*-Benzoyl

CAS Registry Number: 75435-41-5
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%
Boiling Point: Bp_2 210°

>>**Derivative:** *N*-Me

CAS Registry Number: 6772-65-2
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: Liq.
Boiling Point: Bp_6 157°. $Bp_{0.4}$ 118°

>>**Derivative:** *N*-Hydroxy
Synonym(s): 3,4-Dihydro-2-hydroxy-1(2*H*)-isoquinolinone, 9CI

CAS Registry Number: 116526-30-8

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%
Biological Source: Prod. by *Streptomyces griseus* 2002-104
Biological Use/Importance: Siderophore. Allergy inhibitor
UV: [neutral] λ_{max} 480 () (H_2O+$FeCl_3$) (Berdy)

References:

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Davies, R.V. *et al.*, *J.C.S. Perkin 1*, 1978, 180-184, *(synth, ir)*
Misra, R.N. *et al.*, *Bioorg. Med. Chem. Lett.*, 1991, **1**, 295-298, *(synth, N-hydroxy)*
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