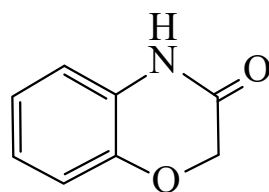




>>Entry Name: **2*H*-1,4-Benzoxazin-3(4*H*)-one**, 9CI

Synonym(s): 2,3-Dihydro-3-oxo-1,4-benzoxazine. Benzomorpholone. 2-Aminophenoxyacetic lactam



CAS Registry Number: 5466-88-6

Molecular Formula: C₈H₇NO₂

Molecular Weight: 149.149

Accurate Mass: 149.047679

Percentage Composition: C 64.42%; H 4.73%; N 9.39%; O 21.45%

Melting Point: Mp 171-172°

Other Data: λ_{max} 256.4 (log ε 3.66) and 282.5 nm (3.42)

Aldrich: 38350-3

Rare Chemicals Library: S93798-3

>>Derivative: *N*-Me

CAS Registry Number: 21744-84-3

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%

Melting Point: Mp 58°

>>Derivative: *N*-Ph

CAS Registry Number: 54799-66-5

Molecular Formula: C₁₄H₁₁NO₂

Molecular Weight: 225.246

Accurate Mass: 225.078979

Percentage Composition: C 74.65%; H 4.92%; N 6.22%; O 14.21%

Physical Description: Cryst. (C₆H₆/petrol)

Melting Point: Mp 98-99.5°

References:

Cook, J.W. *et al.*, *J.C.S.*, 1952, 3904, (*synth*)

Mazharuddin, M. *et al.*, *Tetrahedron*, 1969, **25**, 517, (*pmr, ir, uv*)

Tallec, A. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1971, **273**, 1378, (*synth*)

Ellis, G.P. *et al.*, *J.C.S.(C)*, 1971, 2079, (*ms*)

Shridhar, D.R. *et al.*, *Org. Prep. Proced. Int.*, 1982, **14**, 195, (*synth*)

Huang, X. *et al.*, *Synthesis*, 1984, 851, (*synth*)

Huang, Z.-Z. *et al.*, *Org. Prep. Proced. Int.*, 1996, **28**, 121, (*N-Me*)