



>>Entry Name: 1,2,3,4-Tetrahydro-4-oxocarbazole

Synonym(s): 1,2,3,9-Tetrahydro-4*H*-carbazol-4-one, 9Cl. 2,3-Dihydrocarbazol-4(1*H*)-one, 8Cl. 4-Oxo-1,2,3,4-tetrahydrocarbazole

CAS Registry Number: 15128-52-6

Molecular Formula: C₁₂H₁₁NO

Molecular Weight: 185.225

Accurate Mass: 185.084064

Percentage Composition: C 77.81%; H 5.99%; N 7.56%; O 8.64%

Physical Description: Prisms (EtOH)

Melting Point: Mp 223°

>>Derivative: Picrate

Physical Description: Bright-red rhombs (EtOH)

Melting Point: Mp 167°

>>Derivative: Oxime

CAS Registry Number: 14362-50-6

Molecular Formula: C₁₂H₁₂N₂O

Molecular Weight: 200.24

Accurate Mass: 200.094963

Percentage Composition: C 71.98%; H 6.04%; N 13.99%; O 7.99%

Physical Description: Cryst.

Melting Point: Mp 208 dec.°

>>Derivative: Phenylhydrazone, hydrochloride

Physical Description: Cryst. (EtOH)

Melting Point: Mp 234-236°

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Dark-maroon needles (AcOH)

Melting Point: Mp 288 dec.°

>>Derivative: *N*-Ac

Molecular Formula: C₁₄H₁₃NO₂

Molecular Weight: 227.262

Accurate Mass: 227.094629

Percentage Composition: C 73.99%; H 5.77%; N 6.16%; O 14.08%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 136°

References:

Clemo, G.R. *et al.*, *J.C.S.*, 1951, 700, (*synth*)

Teuber, H.-J. *et al.*, *Annalen*, 1964, **671**, 127, (*deriv, synth*)

Rodriguez, J.-G. *et al.*, *J.C.S. Perkin I*, 1989, 2117, (*synth, ir, pmr, ms, cryst struct*)

Martin, M.J. *et al.*, *J. Med. Chem.*, 1992, **35**, 4105, (*synth*)