



>>Entry Name: Benzamidoxime

Synonym(s): *N*-Hydroxybenzenecarboximidamide, 9Cl. Benzohydroxamamide

CAS Registry Number: 613-92-3

PhC(NH₂)=NOH

Molecular Formula: C₇H₈N₂O

Molecular Weight: 136.153

Accurate Mass: 136.063663

Percentage Composition: C 61.75%; H 5.92%; N 20.57%; O 11.75%

Melting Point: Mp 79-80° (76-78°)

Rare Chemicals Library: S18785-2

>>Derivative: O-Ac

Molecular Formula: C₉H₁₀N₂O₂

Molecular Weight: 178.19

Accurate Mass: 178.074228

Percentage Composition: C 60.66%; H 5.66%; N 15.72%; O 17.96%

Melting Point: Mp 96°

>>Derivative: O-Benzoyl

CAS Registry Number: 959-30-8

Molecular Formula: C₁₄H₁₂N₂O₂

Molecular Weight: 240.261

Accurate Mass: 240.089878

Percentage Composition: C 69.99%; H 5.03%; N 11.66%; O 13.32%

Melting Point: Mp 140°

>>Derivative: O-Me

CAS Registry Number: 4424-16-2

Molecular Formula: C₈H₁₀N₂O

Molecular Weight: 150.18

Accurate Mass: 150.079313

Percentage Composition: C 63.98%; H 6.71%; N 18.65%; O 10.65%

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 57-58°

>>Derivative: O-Benzylsulfonyl

Melting Point: Mp 102 dec.°

References:

Hand, E.S. *et al.*, *J.A.C.S.*, 1962, **84**, 3505, (*synth*)

Bell, C.L. *et al.*, *J.O.C.*, 1964, **29**, 2873, (*struct, ir, pmr*)

Truce, W.E. *et al.*, *Can. J. Chem.*, 1966, **44**, 297, (*synth*)

Barassin, J. *et al.*, *Bull. Soc. Chim. Fr.*, 1969, 3409, (*conformn*)

Mathis, R. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. B*, 1973, **277**, 659, (*ir*)

Grambal, F. *et al.*, *Coll. Czech. Chem. Comm.*, 1978, **43**, 2008, (*pmr*)