



>>Entry Name: **Benzamidine**

Synonym(s): Benzenecarboximidamide, 9CI. Benzenylamidine

CAS Registry Number: 618-39-3

Related CAS Registry Numbers(s): 59387-41-6

PhC(NH2)=NH

Molecular Formula: C₇H₈N₂

Molecular Weight: 120.154

Accurate Mass: 120.068748

Percentage Composition: C 69.97%; H 6.71%; N 23.31%

Physical Description: Cryst.

Melting Point: Mp 75-80°

pKa Value: pK_a 11.6 (20°)

Fluka: 12072

>>Derivative: Hydrochloride

CAS Registry Number: 1670-14-0

Physical Description: Cryst. + 2H₂O

Melting Point: Mp 72° (anhyd. 169°)

Aldrich: 43476-0

Fluka: 12073

Sigma: B6506

>>Derivative: Picrate

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 236-237° (230°)

>>Derivative: 4-Methylbenzenesulfonyl

Melting Point: Mp 195°

References:

Org. Synth., Coll. Vol., 1, 1932, 6, (*synth*)

Partridge, M.W. *et al.*, *J.C.S.*, 1947, 390

Ried, W. *et al.*, *Chem. Ber.*, 1963, **96**, 1213, (*synth*)

Wagner, G. *et al.*, *Pharmazie*, 1975, **30**, 444, (*ir*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1977, **6**, 27

Thailambal, V.G. *et al.*, *Acta Cryst. C*, 1986, **42**, 587, (*cryst struct*)