



>>Entry Name: Amidinourea, 8Cl

Synonym(s): (Aminoiminomethyl)urea, 9Cl. Carbamoylguanidine. Dicyandiamidine. Guanylurea. (Aminocarbonyl)guanidine

CAS Registry Number: 141-83-3

Related CAS Registry Numbers(s): 17675-60-4

HN=C(NH2)NHCONH2

Molecular Formula: C₂H₆N₄O

Molecular Weight: 102.096

Accurate Mass: 102.054161

Percentage Composition: C 23.53%; H 5.92%; N 54.88%; O 15.67%

Physical Description: Prisms

Melting Point: Mp 109-110° (105°)

Solubility: Sol. H₂O

pKa Value: pK_a 7.85 (25°)

Rare Chemicals Library: S57591-7

>>Derivative: Hydrochloride

Physical Description: Cryst.

Melting Point: Mp 173-175 dec.°

>>Derivative: Sulfate

CAS Registry Number: 591-01-5

Melting Point: Mp 199 dec.° (hydrate)

Rare Chemicals Library: S41478-6

>>Derivative: Picrate

Physical Description: Yellow plates (H₂O)

Melting Point: Mp 265°

>>Derivative: Benzoyl

Molecular Formula: C₉H₁₀N₄O₂

Molecular Weight: 206.204

Accurate Mass: 206.080376

Percentage Composition: C 52.42%; H 4.89%; N 27.17%; O 15.52%

Physical Description: Cryst.

Melting Point: Mp 187-188°

References:

Söll, J. *et al.*, *Ber.*, 1909, **42**, 4534, (*synth*)

Grossmann, H. *et al.*, *CA*, 1918, **12**, 1372, (*synth*)

Piskala, A., *Coll. Czech. Chem. Comm.*, 1967, **32**, 3966, (*synth*)

Scoponi, M. *et al.*, *J.C.S. Perkin 2*, 1991, 1619, (*cryst struct, ir, Raman*)