



>>Entry Name: *N,N'*-Dimethylguanidine

CAS Registry Number: 3324-71-8

HN=C(NHMe)2

Molecular Formula: C₃H₉N₃

Molecular Weight: 87.124

Accurate Mass: 87.079647

Percentage Composition: C 41.36%; H 10.41%; N 48.23%

pKa Value: pK_a 5.71 (25°)

>>Derivative: Hydrobromide

CAS Registry Number: 13314-44-8

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 142-144°

>>Derivative: Nitrate

CAS Registry Number: 70940-09-9

Physical Description: Cryst. (H₂O)

Melting Point: Mp 68°

>>Derivative: Sulfate (2:1)

Physical Description: Cryst. (H₂O)

Melting Point: Mp 264-265 dec.°

>>Derivative: Picrate

CAS Registry Number: 5652-80-2

Physical Description: Cryst. (H₂O)

Melting Point: Mp 178°

>>Derivative: Picrolonate

Melting Point: Mp 260-262°

References:

Mold, J.D. *et al.*, *J.A.C.S.*, 1953, **75**, 6321, (*synth*)

Goto, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1957, **30**, 723, (*ir*)

Perrin, D.D. *et al.*, *J.C.S.*, 1965, 7071, (*synth*)

Tanabe, S. *et al.*, *Chem. Pharm. Bull.*, 1975, **23**, 1657, (*bibl*)

Scherz, M.W. *et al.*, *J. Med. Chem.*, 1990, **33**, 2421, (*synth*)