



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

CAS Registry Number: 6145-42-2

Related CAS Registry Numbers(s): 1186-46-5

HN=C(NH2)NMe2

Molecular Formula: C₃H₉N₃

Molecular Weight: 87.124

Accurate Mass: 87.079647

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

Physical Description: Plates

Melting Point: Mp 105 dec.°

Other Data: Strong base

>>Derivative: Nitrate

Physical Description: Cryst. (H₂O)

Melting Point: Mp 141°

>>Derivative: Sulfate (2:1)

CAS Registry Number: 598-65-2

Physical Description: Cryst. (H₂O)

Melting Point: Mp 285-288°

Aldrich: 27666-9

Fluka: 40404

Sigma: D3029

>>Derivative: Picrate

CAS Registry Number: 18240-90-9

Physical Description: Cryst. (EtOH)

Melting Point: Mp 230°

References:

Sadtler Standard C-13 NMR Spectra, 5522, (*cmr*)

Sadtler Standard NMR Spectra, 20100, (*pmr*)

Werner, E.A. *et al.*, *J.C.S.*, 1922, **121**, 1790, (*synth*)

Bohme, H. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 1954, **287**, 198; *CA*, **51**, 14752, (*synth*)

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

Spasskaya, R.I. *et al.*, *Zh. Org. Khim.*, 1967, **3**, 1794; *J. Org. Chem. USSR (Engl. Transl.)*, 1967, **3**, 1750, (*synth*)

Beynon, J.H. *et al.*, *Org. Mass Spectrom.*, 1968, **1**, 169, (*ms*)

Mishimura, T. *et al.*, *J. Het. Chem.*, 1975, **12**, 471, (*synth*)