



>>Entry Name: Dodecylguanidine, 9CI

Synonym(s): Guanidine, JMAF‡. Cyprex

CAS Registry Number: 112-65-2

Related CAS Registry Numbers(s): 13590-97-1 101967-87-7

$\text{HN}=\text{C}(\text{NH}_2)\text{NH}(\text{CH}_2)_{11}\text{CH}_3$

Molecular Formula: $\text{C}_{13}\text{H}_{29}\text{N}_3$

Molecular Weight: 227.392

Accurate Mass: 227.236147

Percentage Composition: C 68.67%; H 12.85%; N 18.48%

Physical Description: Cryst.

Melting Point: Mp 96°

>>Derivative: Hydrobromide

Physical Description: Cryst.

Melting Point: Mp 82°

>>Derivative: Acetate salt

Synonym(s): Dodine, ANSI, BSI, ISO. Dodecylguanidine monoacetate. Melprex. Doguadine. Carpeno

CAS Registry Number: 2439-10-3

Biological Use/Importance: Fungicide

Physical Description: Cryst.

Melting Point: Mp 136°

Solubility: Sol. H_2O , EtOH; insol. nonpolar solvs.

Hazard & Toxicity: Eye irritant. LD₅₀ (rat, orl) 566 mg/kg

Rare Chemicals Library: S56614-4

>>Derivative: Sulfate

CAS Registry Number: 41197-06-2

Melting Point: Mp 250-260 dec.°

References:

U.S. Pat., 1955, 2 704 710; *CA*, **49**, 8019, (*synth*)

Pressman, B.C., *J. Biol. Chem.*, 1963, **238**, 401, (*synth*)

Stearns, J.F. *et al.*, *J.O.C.*, 1977, **42**, 3608, (*synth, derivs*)

Dangerous Prop. Ind. Mater. Rep., 1990, **10**, 20, (*rev, tox*)

Pesticide Manual, 9th edn., 1991, No. 5490

Agrochemicals Handbook, 3rd edn., Royal Society of Chemistry, 1992, A173

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DXX400; DXX800