



>>Entry Name: Dichlofluamid, BSI

Synonym(s): 1,1-Dichloro-*N*-[(dimethylamino)sulfonyl]-1-fluoro-*N*-phenylmethanesulfenamide, 9CI. *N*-Dichlorofluoromethylthio-*N*',*N*'-dimethyl-*N*-phenylsulfamide. **Euparen** ‡. Elvaron. Chlormethionate

CAS Registry Number: 1085-98-9

Cl₂CF-S-NPh-SO₂NMe₂

Molecular Formula: C₉H₁₁Cl₂FN₂O₂S₂

Molecular Weight: 333.234

Accurate Mass: 331.9623

Percentage Composition: C 32.44%; H 3.33%; Cl 21.28%; F 5.70%; N 8.41%; O 9.60%; S 19.25%

Use/Importance: Protective fungicide with some acaricidal effect

Physical Description: Powder

Melting Point: Mp 105-106°

Solubility: Prac. insol. H₂O, sl. sol. MeOH, sol. xylene

Hazard & Toxicity: LD₅₀ (rat, orl) 500 mg/kg; LD₅₀ (rat, skn) 1000 mg/kg

References:

U.K. Pat., 1960, 927 834; *CA*, **58**, 9093b

Kuehle, E. *et al.*, *Angew. Chem.*, 1964, **76**, 807, (*synth, activity*)

Suzuki, K. *et al.*, *Agric. Biol. Chem.*, 1974, **38**, 1433, (*detn*)

Schupan, I. *et al.*, *ACS Symp. Ser.*, 1981, **158**, 85, (*rev, metab*)

Pesticide Manual, 9th edn., 1991, No. 4150

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DFL200