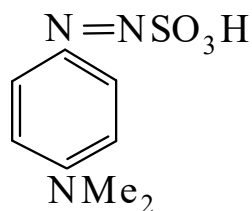




>>Entry Name: 4-Dimethylaminobenzenediazosulfonic acid

Synonym(s): [4-(Dimethylamino)phenyl]diazenesulfonic acid, 9CI



CAS Registry Number: 150-70-9

Related CAS Registry Numbers(s): 17668-91-6 21408-73-1 85518-96-3

Molecular Formula: C₈H₁₁N₃O₃S

Molecular Weight: 229.259

Accurate Mass: 229.052112

Percentage Composition: C 41.91%; H 4.84%; N 18.33%; O 20.94%; S 13.99%

Physical Description: Violet prisms

Melting Point: Mp 144°

>>Derivative: Na salt

Synonym(s): Fenaminosulf, BSI. Lesan. Dexon

CAS Registry Number: 140-56-7

Use/Importance: Seed and soil fungicide. Superseded

Physical Description: Yellowish-brown powder

Solubility: Mod. sol. H₂O, sol. DMF

Hazard & Toxicity: LD₅₀ (rat, orl) 60 mg/kg. Exp. teratogenic effects

Sigma: D1928

References:

Stolle, R., *Ber.*, 1912, **45**, 2682, (*synth, salts*)

Ger. Pat., 1956, 1 028 828; *CA*, **54**, 13528h, (*synth, activity*)

Urbschat, E., *Angew. Chem.*, 1960, **72**, 981, (*activity*)

Hills, F.J., *Phytopathology*, 1961, **52**, 389, (*activity, metab*)

MacDougall, D., *Anal. Methods Pestic. Plant Growth Regul.*, 1964, **3**, 49, (*rev, detn*)

Pai, S.B. *et al.*, *J. Environ. Sci. Health, Part A*, 1983, **18**, 503, (*tox*)

Pesticide Manual, 8th edn., 1987, No. 6000

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DOU600