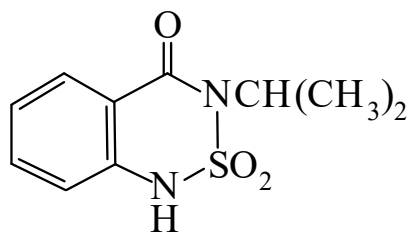




>>Entry Name: Bentazone, BSI

Synonym(s): 3-(1-Methylethyl)-1*H*-2,1,3-benzothiadiazin-4(3*H*)-one 2,2-dioxide, 9Cl. 3-Isopropyl-(1*H*)-benzo-2,1,3-thiadiazin-4-one 2,2-dioxide. Basagran. Bendioxide. Pentazone



CAS Registry Number: 25057-89-0

Related CAS Registry Numbers(s): 50723-80-3 59966-74-4

Molecular Formula: C₁₀H₁₂N₂O₃S

Molecular Weight: 240.282

Accurate Mass: 240.056863

Percentage Composition: C 49.99%; H 5.03%; N 11.66%; O 19.98%; S 13.35%

Use/Importance: Selective herbicide, used as Na and K salts

Physical Description: Cryst. powder

Melting Point: Mp 137-139°

Solubility: Spar. sol. H₂O; sl. sol. C₆H₆; sol. Me₂CO, CHCl₃, EtOH

Hazard & Toxicity: LD₅₀ (rat, orl) 1100 mg/kg. Exp. reprod. and teratogenic effects

Rare Chemicals Library: S25556-4

References:

Ger. Pat., 1966, 1 542 836; *CA*, **70**, 37847c

Mine, A. *et al.*, *Pestic. Biochem. Physiol.*, 1975, **5**, 566, (*metab*)

Moss, L.E. *et al.*, *Acta Cryst. C*, 1986, **42**, 1785, (*cryst struct*)

Pesticide Manual, 9th edn., 1991, No. 770

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, MJY500