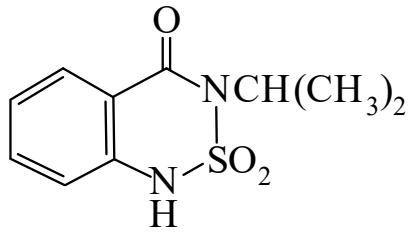
>>**Entry Name: Bentazone,** BSI
Synonym(s): 3-(1-Methylethyl)-1*H*-2,1,3-benzothiadiazin-4(3*H*)-one 2,2-dioxide, 9CI. 3-Isopropyl-(1*H*)-benzo-2,1,3-thiadiazin-4-one 2,2-dioxide. Basagran. Bendioxide. Pentazone



CAS Registry Number: 25057-89-0
Related CAS Registry Numbers(s): 50723-80-3 59966-74-4

Molecular Formula: $C_{10}H_{12}N_2O_3S$
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. H_2O; sl. sol. C_6H_6; sol. Me_2CO, $CHCl_3$, EtOH
Hazard & Toxicity: LD_{50} (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