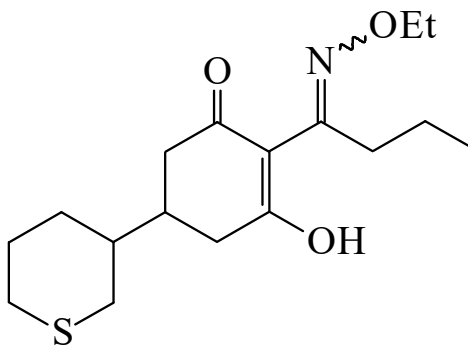




>>Entry Name: Cycloxydim, BSI

Synonym(s): 2-[1-(Ethoxyimino)butyl]-3-hydroxy-5-(tetrahydro-2*H*-thiopyran-3-yl)-2-cyclohexen-1-one, 9Cl. 2-[1-(Ethoxyamino)butylidene]-5-(tetrahydro-2*H*-thiopyran-3-yl)-1,3-cyclohexanedione. BAS 517H



CAS Registry Number: 101205-02-1

Related CAS Registry Numbers(s): 99434-58-9 119725-79-0 119759-56-7

Molecular Formula: C₁₇H₂₇NO₃S

Molecular Weight: 325.471

Accurate Mass: 325.171164

Percentage Composition: C 62.74%; H 8.36%; N 4.30%; O 14.75%; S 9.85%

General Statement: Potentially tautomeric. Enolised β-diketone form shown

Use/Importance: Herbicide. Mitosis inhibitor

Physical Description: Yellow solid

Melting Point: Mp 37-39°

Hazard & Toxicity: LD₅₀ (rat, orl) 3940 mg/kg

References:

Eur. Pat., 1985, 136 702; *CA*, **104**, 5778k, (*synth*)

Kobek, K. *et al.*, *Z. Naturforsch., C*, 1990, **45**, 84, (*activity*)

Pesticide Manual, 9th edn., 1991, 197