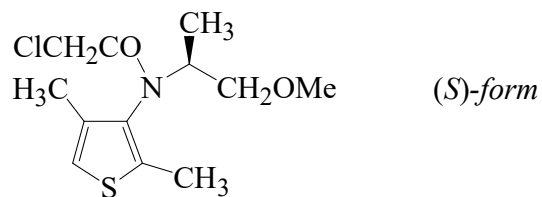




>>Entry Name: Dimethenamid, BSI

Synonym(s): 2-Chloro-*N*-(2,4-dimethyl-3-thienyl)-*N*-(2-methoxy-1-methylethyl)acetamide, 9Cl. Frontier



CAS Registry Number: 87674-68-8

Related CAS Registry Numbers(s): 164201-36-9 164201-37-0 164201-40-5 164201-41-6

Molecular Formula: C₁₂H₁₈ClNO₂S

Molecular Weight: 275.798

Accurate Mass: 275.074676

Percentage Composition: C 52.26%; H 6.58%; Cl 12.85%; N 5.08%; O 11.60%; S 11.63%

Biological Use/Importance: Cell division inhibitor. Herbicide

>>Variant: (*S*)-form

Synonym(s): Dimethenamid-P, BSI. BAS 656H. SAN 582 H

CAS Registry Number: 163515-14-8

Molecular Formula: C₁₂H₁₈ClNO₂S

Molecular Weight: 275.798

Accurate Mass: 275.074676

Percentage Composition: C 52.26%; H 6.58%; Cl 12.85%; N 5.08%; O 11.60%; S 11.63%

>>Variant: (±)-form

Molecular Formula: C₁₂H₁₈ClNO₂S

Molecular Weight: 275.798

Accurate Mass: 275.074676

Percentage Composition: C 52.26%; H 6.58%; Cl 12.85%; N 5.08%; O 11.60%; S 11.63%

Physical Description: Viscous yellowish-brown liq.

Boiling Point: Bp_{0.2} 127°

Hazard & Toxicity: LD₅₀ (rat, orl) 1570 mg/kg

Other: BASF

References:

U.K. Pat., 1983, Sandoz, 2 114 566; *CA*, **100**, 34136x, (*synth, activity*)

Harr, J. *et al.*, *Brighton Crop Prot. Conf. - Weeds*, 1991, 87-92, (*activity*)

U.S. Pat., 1995, Sandoz, 5 457 085; *CA*, **123**, 332751a, (*synth, S-form*)

Pesticide Manual, 12th edn., 2000, No. 254