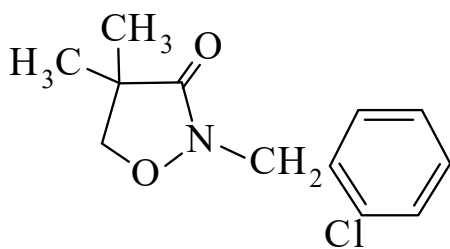




>>Entry Name: Dimethazone

Synonym(s): 2-[(2-Chlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone, 9Cl. Command. Clomazone, ANSI, BSI



CAS Registry Number: 81777-89-1

Molecular Formula: C₁₂H₁₄ClNO₂

Molecular Weight: 239.701

Accurate Mass: 239.071306

Percentage Composition: C 60.13%; H 5.89%; Cl 14.79%; N 5.84%; O 13.35%

Use/Importance: Preemergence herbicide active by inhibition of chlorophyll and carotenoid synth.

Physical Description: Oil

Density: d²⁰ 1.192

Hazard & Toxicity: LD₅₀ (rat, orl) 2077 mg/kg

References:

U.S. Pat., 1983, 4 405 357; *CA*, **100**, 34529, (*synth*)

Norman, M.A. *et al.*, *Plant Physiol.*, 1990, **94**, 704, (*activity*)

Dargar, R.V. *et al.*, *J. Agric. Food Chem.*, 1991, **39**, 813, (*detn*)

Pesticide Manual, 9th edn., 1991, No. 3204

Agrochemicals Handbook, 3rd edn., Royal Society of Chemistry, 1992, A1263

Chen, A.W., *Compr. Anal. Profiles Important Pestic.*, 1993, 131, (*props, detn*)