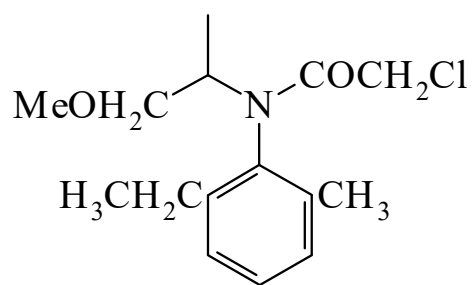




>>Entry Name: Metolachlor, ANSI, BSI, ISO

Synonym(s): 2-Chloro-*N*-(2-ethyl-6-methylphenyl)-*N*-(2-methoxy-1-methylethyl)acetamide, 9Cl. 2-Chloro-6'-ethyl-*N*-(2-methoxy-1-methylethyl)acet-*o*-toluidide. CGA 24705. Dual



CAS Registry Number: 51218-45-2

Related CAS Registry Numbers(s): 59316-87-9 87392-12-9

Molecular Formula: C₁₅H₂₂ClNO₂

Molecular Weight: 283.797

Accurate Mass: 283.133906

Percentage Composition: C 63.48%; H 7.81%; Cl 12.49%; N 4.94%; O 11.28%

Use/Importance: Herbicide. Cell division inhibitor

Physical Description: Liq.

Boiling Point: Bp_{0.001} 100°

Other Data: (*R*_{axial}, 1*S*) isomer is the most active form

Hazard & Toxicity: Skin, eye and mucous membrane irritant. Severe gastrointestinal effects by ingestion. LD₅₀ (rat, orl) 2780 mg/kg

Sigma: M6911

Supelco: R42-7530

References:

Ger. Pat., 1973, 2 328 340; *CA*, **80**, 82440g, (*synth*)

Gerber, H.R. *et al.*, *Proc. Br. Weed Control Conf.*, 7th, 1974, **12**, 787, (*activity*)

Kimmel, E.C. *et al.*, *J. Agric. Food Chem.*, 1986, **34**, 157, (*metab*)

Chesters, G. *et al.*, *Rev. Environ. Contam. Toxicol.*, 1989, **110**, 1, (*rev, metab, tox*)

Pesticide Manual, 9th edn., 1991, No. 8540

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, MQQ450

Handbook of Pesticide Toxicology, (Eds. Hayes, W.J. *et al.*), Academic Press, 1991, 1343