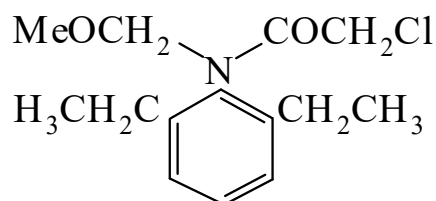




>>Entry Name: Alachlor, ANSI, BSI, ISO, JMAF, WSSA

Synonym(s): 2-Chloro-*N*-(2,6-diethylphenyl)-*N*-(methoxymethyl)acetamide, 9Cl. 2-Chloro-2',6'-diethyl-*N*-(methoxymethyl)acetanilide. Alagan. Alanex. Alatox. Bullet. Lasso. Pillarzo. Ralchlor. Satochlor. Alapaz. Nitala



CAS Registry Number: 15972-60-8

Related CAS Registry Numbers(s): 8070-94-8

Molecular Formula: C₁₄H₂₀ClNO₂

Molecular Weight: 269.77

Accurate Mass: 269.118256

Percentage Composition: C 62.33%; H 7.47%; Cl 13.14%; N 5.19%; O 11.86%

Use/Importance: Selective preemergent herbicide

Physical Description: Cryst.

Melting Point: Mp 39.5-41.5°

Solubility: Spar. sol. H₂O, sol. Me₂CO, C₆H₆, EtOH, EtOAc

Hazard & Toxicity: LD₅₀ (rat, orl) 1200 mg/kg. Possible skin allergen

Sigma: A6812

Supelco: 44-2443

References:

- U.K. Pat.*, 1961, 1 008 851; *CA*, **59**, 11330h
Burow, M.D. *et al.*, *Cryst. Struct. Commun.*, 1982, **11**, 747, (*cryst struct*)
Huppatz, J.L. *et al.*, *Pestic. Sci.*, 1982, **13**, 78, (*synth, activity*)
Voyksner, R.D. *et al.*, *J. Chromatogr.*, 1984, **312**, 221, (*hplc*)
Kimmel, E.C. *et al.*, *J. Agric. Food Chem.*, 1986, **34**, 157, (*metab*)
Supreck, J.F. *et al.*, *J. Assoc. Off. Anal. Chem.*, 1987, **70**, 1014, (*gc*)
Chesters, G. *et al.*, *Rev. Environ. Contam. Toxicol.*, 1989, **110**, 1, (*rev*)
Venkov, A.P. *et al.*, *Synth. Commun.*, 1989, **19**, 2133, (*synth, pmr, ir*)
Dangerous Prop. Ind. Mater. Rep., 1990, **10**, 23, (*rev, tox*)
Pesticide Manual, 9th edn., 1991, No. 90
Agrochemicals Handbook, 3rd edn., Royal Society of Chemistry, 1992, A4
Warner, J.M. *et al.*, *Compr. Anal. Profiles Important Pestic.*, 1993, 109, (*rev*)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CFX000
Handbook of Pesticide Toxicology, (Eds. Hayes, W.J. *et al*), Academic Press, 1991, 1341