



>>Entry Name: [(4-Aminophenyl)sulfonyl]carbamic acid, 9Cl

Synonym(s): Sulfanilylcarbamic acid, 8Cl



Related CAS Registry Numbers(s): 2302-17-2

Molecular Formula: $\text{C}_7\text{H}_8\text{N}_2\text{O}_4\text{S}$

Molecular Weight: 216.217

Accurate Mass: 216.020478

Percentage Composition: C 38.89%; H 3.73%; N 12.96%; O 29.60%; S 14.83%

>>Derivative: Me ester

Synonym(s): Asulam, ANSI, BSI, ISO, JMAF, WSSA. Asulox

CAS Registry Number: 3337-71-1

Molecular Formula: $\text{C}_8\text{H}_{10}\text{N}_2\text{O}_4\text{S}$

Molecular Weight: 230.244

Accurate Mass: 230.036128

Percentage Composition: C 41.73%; H 4.38%; N 12.17%; O 27.80%; S 13.93%

Physical Description: Herbicide

Melting Point: Mp 145-146°

Solubility: Mod. sol. H_2O

pKa Value: pK_a 4.82 (imido)

Hazard & Toxicity: LD_{50} (rat, orl) 2000 mg/kg

References:

Heywood, B.J. *et al.*, *J. Sci. Food Agric.*, 1968, 3, (use)

U.S. Pat., 1974, 3 823 008; *CA*, **83**, 92404z, (synth, use)

Lu, G. *et al.*, *CA*, 1982, **97**, 31752d, (cryst struct, asulam)

Kirkwood, R.C. *et al.*, *Proc. - R. Soc. Edinburgh, Sect. B: Biol. Sci*, 1982, **81**, 85; 1985, **86**, 179, (rev, asulam)

Guardigli, A. *et al.*, *Anal. Methods Pestic. Plant Growth Regul.*, 1984, **13**, 197, (hplc)

Heijbroek, W.M.H. *et al.*, *Xenobiotica*, 1984, **14**, 235, (metab, asulam)

Pesticide Manual, 9th edn., 1991, No. 479, (asulam)

Agrochemicals Handbook, 3rd edn., Royal Society of Chemistry, 1992, A21, (asulam)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, SNQ500