



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

Synonym(s): *N*-Phenyl-*N'*-(1,2,3-thiadiazol-5-yl)urea, 9Cl. Dropp



CAS Registry Number: 51707-55-2

Molecular Formula: C₉H₈N₄OS

Molecular Weight: 220.254

Accurate Mass: 220.041881

Percentage Composition: C 49.08%; H 3.66%; N 25.44%; O 7.26%; S 14.56%

Use/Importance: Plant growth regulator and defoliant

Physical Description: Cryst.

Melting Point: Mp 213 dec.°

pKa Value: pK_a 8.86

Hazard & Toxicity: LD₅₀ (rat, orl) >4000 mg/kg

Sigma: P4213

References:

Ger. Pat., 1975, 2 506 690; *CA*, **86**, 38598q

Mok, M.C. *et al.*, *Phytochemistry*, 1982, **21**, 1509, (*activity*)

Mok, M.C. *et al.*, *HortScience*, 1987, **22**, 1194, (*rev, props, activity*)

Pesticide Manual, 9th edn., 1991, No. 11540

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, TEX600