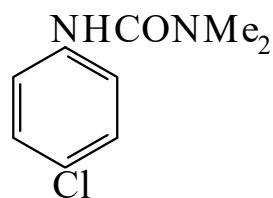




>>Entry Name: *N'*-(4-Chlorophenyl)-*N,N*-dimethylurea, 9Cl

Synonym(s): 3-(*p*-Chlorophenyl)-1,1-dimethylurea, 8Cl. CMU. Monuron, BSI



CAS Registry Number: 150-68-5

Molecular Formula: C₉H₁₁ClN₂O

Molecular Weight: 198.651

Accurate Mass: 198.05599

Percentage Composition: C 54.42%; H 5.58%; Cl 17.85%; N 14.10%; O 8.05%

Use/Importance: Herbicide against broad-leaf weeds. Now superseded

Physical Description: Thin rectangular prisms (MeOH)

Melting Point: Mp 170.5-171.5°

Solubility: Spar. sol. H₂O, hydrocarbons

Hazard & Toxicity: LD₅₀ (rat, orl) 1053 mg/kg. Exp. carcinogenic data. Exp. reprod. and teratogenic effects

Aldrich: 33299-2

Rare Chemicals Library: S50286-3

>>Derivative: Trichloroacetate salt

Synonym(s): Monuron TCA. Urox

CAS Registry Number: 140-41-0

Use/Importance: Herbicide against weeds and grasses

Melting Point: Mp 78-81°

Solubility: Sol. MeOH, xylene; spar. sol. H₂O

References:

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Mizuno, T. *et al.*, *Synth. Commun.*, 2000, **30**, 1675-1688, (*synth, pmr, cmr, ms*)

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