

Metoxuron

Chemical Properties

CAS No.:	19937-59-8
Formula:	C ₁₀ H ₁₃ CIN ₂ O ₂
Molecular Weight:	228.67
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Metoxuron is a phenylurea herbicide. It is used to control annual gramineous weeds and broadleaf weeds in wheat, barley and carrot fields.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.373 mL	21.866 mL	43.731 mL
5 mM	0.875 mL	4.373 mL	8.746 mL
10 mM	0.437 mL	2.187 mL	4.373 mL
50 mM	0.087 mL	0.437 mL	0.875 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Boulkamh A, Harakat D, Sehili T, Boule P. Phototransformation of metoxuron [3-(3-chloro-4-methoxyphenyl)-1,1-dimethylurea] in aqueous solution. *Pest Manag Sci*. 2001 Dec;57(12):1119-26. PubMed PMID: 11802599.
2. Gudéhn A, Kolmodin-Hedman B. Sampling and determination of fenitrothion, dimethoate, mevinphos, linuron, metoxuron and trifluralin from air. *J Chromatogr*. 1987 Jan 30;387:420-7. PubMed PMID: 3558633.
3. Raju KR, Parthasarathy TN, Akella SR, Bhalerao UT. Spectrophotometric assay of Isoproturon and Metoxuron in technical grade and formulation samples using 3-methylbenzothiozolin-2-one hydrazone hydrochloride. *Talanta*. 1992 Oct;39(10):1387-90. PubMed PMID: 18965546.
4. Fabbri D, Minella M, Maurino V, Minero C, Vione D. Photochemical transformation of phenylurea herbicides in surface waters: a model assessment of persistence, and implications for the possible generation of hazardous intermediates. *Chemosphere*. 2015 Jan;119:601-607. doi: 10.1016/j.chemosphere.2014.07.034. Epub 2014 Aug 14. PubMed PMID: 25128892.

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Tel:781-999-4286

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