

Difenoxuron

Chemical Properties

CAS No.:	14214-32-5
Formula:	C ₁₆ H ₁₈ N ₂ O ₃
Molecular Weight:	286.33
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Difenoxuron, a herbicide, can control wild oats and other weeds.
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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	3.492 mL	17.462 mL	34.925 mL
5 mM	0.698 mL	3.492 mL	6.985 mL
10 mM	0.349 mL	1.746 mL	3.492 mL
50 mM	0.070 mL	0.349 mL	0.698 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. Fenoll J, Garrido I, Hellín P, Flores P, Vela N, Navarro S. Use of different organic wastes as strategy to mitigate the leaching potential of phenylurea herbicides through the soil. *Environ Sci Pollut Res Int.* 2015 Mar;22(6):4336-49. doi: 10.1007/s11356-014-3652-7. Epub 2014 Oct 10. PubMed PMID: 25296939.
2. Fouqué-Brouard CM, Fournier JM. Adsorption-desorption and leaching of phenylurea herbicides on soils. *Talanta.* 1996 Oct;43(10):1793-802. PubMed PMID: 18966666.
3. Federico C, Motta S, Palmieri C, Pappalardo M, Librando V, Saccone S. Phenylurea herbicides induce cytogenetic effects in Chinese hamster cell lines. *Mutat Res.* 2011 Mar 18;721(1):89-94. doi: 10.1016/j.mrgentox.2010.12.013. Epub 2011 Jan 14. PubMed PMID: 21238602.
4. Librando V, Forte S, Sarpietro MG. Structure effect on the interaction of phenylurea herbicides with model biomembrane as an environmental mobility parameter. *Environ Sci Technol.* 2004 Jan 15;38(2):503-7. PubMed PMID: 14750726.

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