

Flurochloridone

Chemical Properties

CAS No.:	61213-25-0
Formula:	C ₁₂ H ₁₀ Cl ₂ F ₃ NO
Molecular Weight:	312.11
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Flurochloridone is a widely used herbicide.
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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	3.204 mL	16.020 mL	32.040 mL
5 mM	0.641 mL	3.204 mL	6.408 mL
10 mM	0.320 mL	1.602 mL	3.204 mL
50 mM	0.064 mL	0.320 mL	0.641 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. Kaya A, Yigit E. The physiological and biochemical effects of salicylic acid on sunflowers (*Helianthus annuus*) exposed to flurochloridone. *Ecotoxicol Environ Saf.* 2014 Aug;106:232-8. doi: 10.1016/j.ecoenv.2014.04.041. Epub 2014 May 21. PubMed PMID: 24859709.
2. Nikoloff N, Larramendy ML, Soloneski S. Comparative evaluation in vitro of the herbicide flurochloridone by cytokinesis-block micronucleus cytome and comet assays. *Environ Toxicol.* 2014 Aug;29(8):884-92. doi: 10.1002/tox.21816. Epub 2012 Sep 15. PubMed PMID: 22987626.
3. Nikoloff N, Natale GS, Marino D, Soloneski S, Larramendy ML. Flurochloridone-based herbicides induced genotoxicity effects on *Rhinella arenarum* tadpoles (Anura: Bufonidae). *Ecotoxicol Environ Saf.* 2014 Feb;100:275-81. doi: 10.1016/j.ecoenv.2013.10.021. Epub 2013 Nov 14. PubMed PMID: 24239267.
4. Nikoloff N, Larramendy ML, Soloneski S. Assessment of DNA damage, cytotoxicity, and apoptosis in human hepatoma (HepG2) cells after flurochloridone herbicide exposure. *Food Chem Toxicol.* 2014 Mar;65:233-41. doi: 10.1016/j.fct.2013.12.045. Epub 2014 Jan 3. PubMed PMID: 24394490.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481