

## Isoxaflutole

## Chemical Properties

CAS No.:	141112-29-0
Formula:	C <sub>15</sub> H <sub>12</sub> F <sub>3</sub> NO <sub>4</sub> S
Molecular Weight:	359.31
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Isoxaflutole is a low toxic herbicide and has been marketed as a substitute for atrazine.
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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	2.783 mL	13.916 mL	27.831 mL
5 mM	0.557 mL	2.783 mL	5.566 mL
10 mM	0.278 mL	1.392 mL	2.783 mL
50 mM	0.056 mL	0.278 mL	0.557 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. Milan M, Ferrero A, Fogliatto S, Piano S, Vidotto F. Leaching of S-metolachlor, terbutylazine, desethyl-terbutylazine, mesotrione, flufenacet, isoxaflutole, and diketonitrile in field lysimeters as affected by the time elapsed between spraying and first leaching event. J Environ Sci Health B. 2015;50(12):851-61. doi: 10.1080/03601234.2015.1062650. Epub 2015 Aug 7. PubMed PMID: 26252079.
2. Alletto L, Coquet Y, Bergheaud V, Benoit P. Water pressure head and temperature impact on isoxaflutole degradation in crop residues and loamy surface soil under conventional and conservation tillage management. Chemosphere. 2012 Aug;88(9):1043-50. doi: 10.1016/j.chemosphere.2012.05.021. Epub 2012 Jun 6. PubMed PMID: 22677522.
3. Milan M, Ferrero A, Letey M, De Palo F, Vidotto F. Effect of buffer strips and soil texture on runoff losses of flufenacet and isoxaflutole from maize fields. J Environ Sci Health B. 2013;48(12):1021-33. doi: 10.1080/03601234.2013.824239. PubMed PMID: 24007479.
4. Alletto L, Benoit P, Bergheaud V, Coquet Y. Variability of retention process of isoxaflutole and its diketonitrile metabolite in soil under conventional and conservation tillage. Pest Manag Sci. 2012 Apr;68(4):610-7. doi: 10.1002/ps.2304. Epub 2012 Jan 30. PubMed PMID: 22290825.

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