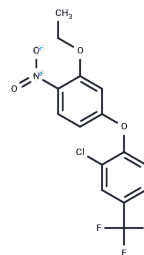


## Oxyfluorfen

## Chemical Properties

CAS No. :	42874-03-3
Formula:	C <sub>15</sub> H <sub>11</sub> ClF <sub>3</sub> NO <sub>4</sub>
Molecular Weight:	361.7
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Oxyfluorfen (Boxer), a herbicide of the nitrodiphenyl ether class, is used to control annual and perennial broad-leaved weeds and sedges in a variety of field crops.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 123.75 mg/mL (342.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (27.65 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn Oil: 3.3 mg/mL (9.12 mM), Sonication is recommended. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (27.65 mM), Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7647 mL	13.8236 mL	27.6472 mL
5 mM	0.5529 mL	2.7647 mL	5.5294 mL
10 mM	0.2765 mL	1.3824 mL	2.7647 mL
50 mM	0.0553 mL	0.2765 mL	0.5529 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Kaur N, Bhullar MS. Harvest time residues of pendimethalin and oxyfluorfen in vegetables and soil in sugarcane-based intercropping systems. *Environ Monit Assess.* 2015 May;187(5):221.
- Rodríguez-Morgado B, Gómez I, Parrado J, Tejada M. Behaviour of oxyfluorfen in soils amended with edaphic biostimulants/biofertilizers obtained from sewage sludge and chicken feathers. Effects on soil biological properties. *Environ Sci Pollut Res Int.* 2014 Sep;21(18):11027-35.
- Kaur N, Bhullar MS. Harvest time residues of pendimethalin and oxyfluorfen in vegetables and soil in sugarcane-based intercropping systems. *Environ Monit Assess.* 2015 May;187(5):221. doi: 10.1007/s10661-015-4451-4. Epub 2015 Apr 2. PubMed PMID: 25832010.
- Janaki P, Sathya Priya R, Chinnusamy C. Field dissipation of oxyfluorfen in onion and its dynamics in soil under Indian tropical conditions. *J Environ Sci Health B.* 2013;48(11):941-7.

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