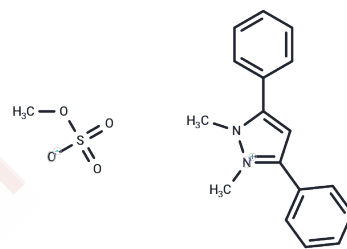


## Difenzoquat metilsulfate

## Chemical Properties

CAS No. :	43222-48-6
Formula:	C <sub>18</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	360.43
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	Difenzoquat metilsulfate is a herbicide used for the control of wild oat.
Targets(IC50)	Others

## 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	2.7745 mL	13.8723 mL	27.7446 mL
5 mM	0.5549 mL	2.7745 mL	5.5489 mL
10 mM	0.2774 mL	1.3872 mL	2.7745 mL
50 mM	0.0555 mL	0.2774 mL	0.5549 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

Koh EH, Mun C, Kim C, Park SG, Choi EJ, Kim SH, Dang J, Choo J, Oh JW, Kim DH, Jung HS. M13 Bacteriophage/Silver Nanowire Surface-Enhanced Raman Scattering Sensor for Sensitive and Selective Pesticide Detection. *ACS Appl Mater Interfaces*. 2018 Mar 28;10(12):10388-10397. doi: 10.1021/acsami.8b01470. Epub 2018 Mar 13. PubMed PMID: 29505228.

Vinhal JO, Nege KK, Lage MR, de M Carneiro JW, Lima CF, Cassella RJ. Adsorption of the herbicides diquat and difenzoquat on polyurethane foam: Kinetic, equilibrium and computational studies. *Ecotoxicol Environ Saf*. 2017 Nov;145:597-604. doi: 10.1016/j.ecoenv.2017.08.005. Epub 2017 Aug 9. PubMed PMID: 28802141.

Nardin T, Barnaba C, Abballe F, Trenti G, Malacarne M, Larcher R. Fast analysis of quaternary ammonium pesticides in food and beverages using cation-exchange chromatography coupled with isotope-dilution high-resolution mass spectrometry. *J Sep Sci*. 2017 Oct;40(20):3928-3937. doi: 10.1002/jssc.201700579. Epub 2017 Sep 4. PubMed PMID: 28779575.

Vinhal JO, Lima CF, Cassella RJ. Polyurethane foam loaded with sodium dodecylsulfate for the extraction of 'quat' pesticides from aqueous medium: Optimization of loading conditions. *Ecotoxicol Environ Saf*. 2016 Sep;131:72-8. doi: 10.1016/j.ecoenv.2016.05.012. Epub 2016 May 20. PubMed PMID: 27213562.

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