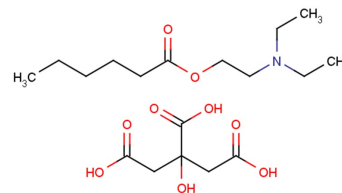


## Diethyl aminoethyl hexanoate citrate

## Chemical Properties

CAS No.:	220439-24-7
Formula:	C <sub>18</sub> H <sub>33</sub> NO <sub>9</sub>
Molecular Weight:	407.46
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Diethyl aminoethyl hexanoate citrate is a compound that is widely used as a plant growth regulator.
Targets(IC <sub>50</sub> )	Others: None
In vitro	Diethylaminohydroxybenzoylhexyl benzoate (DHHB) absorbs UV-A radiation and its peak is at 354 nm. At 25 °C, the molar absorption coefficient of diethylaminohydroxybenzoylhexyl benzoate in EtOH is 39 000 mol / dm <sup>3</sup> / cm.

## Solubility Information

Solubility	DMSO: 125 mg/mL (306.78 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.454 mL	12.271 mL	24.542 mL
5 mM	0.491 mL	2.454 mL	4.908 mL
10 mM	0.245 mL	1.227 mL	2.454 mL
50 mM	0.049 mL	0.245 mL	0.491 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

- Chen XL, et al. An uncommon plant growth regulator, diethyl aminoethyl hexanoate, is highly effective in tissue cultures of the important medicinal plant purple coneflower (*Echinacea purpurea* L.). *Biomed Res Int.* 2013;2013:540316.
- He S, et al. Synergetic effects of DA-6/GA with EDTA on plant growth, extraction and detoxification of Cd by *Lolium perenne*. *Chemosphere.* 2014 Dec;117:132-8.

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