

## Massoia Lactone

## Chemical Properties

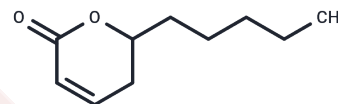
CAS No. : 54814-64-1

Formula: C<sub>10</sub>H<sub>16</sub>O<sub>2</sub>

Molecular Weight: 168.23

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   | Massoia Lactone is a natural antifungal compound that inhibits Sclerotinia sp. and Botrytis cinerea. |
| Targets(IC50) | Antifungal   |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 180 mg/mL (1069.96 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 5.9442 mL | 29.7212 mL | 59.4424 mL |
| 5 mM  | 1.1888 mL | 5.9442 mL  | 11.8885 mL |
| 10 mM | 0.5944 mL | 2.9721 mL  | 5.9442 mL  |
| 50 mM | 0.1189 mL | 0.5944 mL  | 1.1888 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

S Luepongattana, et al. Production of massoia lactone by Aureobasidium pullulans YTP6-14 isolated from the Gulf of Thailand and its fragrant biosurfactant properties. J Appl Microbiol. 2017 Dec;123(6):1488-1497.

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