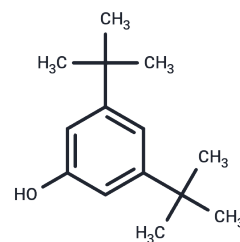


## 3,5-Di-tert-butylphenol

## Chemical Properties

CAS No. :	1138-52-9
Formula:	C <sub>14</sub> H <sub>22</sub> O
Molecular Weight:	206.32
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	3,5-Di-tert-butylphenol induces accumulation of reactive oxygen species. 3,5-Di-tert-butylphenol exhibits anti-biofilm and antifungal activities.
Targets(IC50)	Reactive Oxygen Species, Antibacterial, Antifungal, ROS

## Solubility Information

Solubility	DMSO: 55 mg/mL (266.58 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8468 mL	24.2342 mL	48.4684 mL
5 mM	0.9694 mL	4.8468 mL	9.6937 mL
10 mM	0.4847 mL	2.4234 mL	4.8468 mL
50 mM	0.0969 mL	0.4847 mL	0.9694 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

- Janarthanam Rathna, et al. Anti-biofilm mechanisms of 3,5-di-tert-butylphenol against clinically relevant fungal pathogens. *Biofouling*. 2016 Oct;32(9):979-93.
- Jian-Hua Chen, et al. Characterization of Volatile Organic Compounds Emitted from Endophytic Burkholderia cenocepacia ETR-B22 by SPME-GC-MS and Their Inhibitory Activity against Various Plant Fungal Pathogens. *Molecules*. 2020 Aug 19;25(17):3765.

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