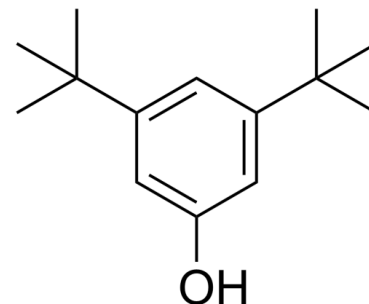


## Data Sheet

<b>Product Name:</b>	3,5-Di-tert-butylphenol
<b>Cat. No.:</b>	CS-W021820
<b>CAS No.:</b>	1138-52-9
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>22</sub> O
<b>Molecular Weight:</b>	206.32
<b>Target:</b>	Fungal; Reactive Oxygen Species
<b>Pathway:</b>	Anti-infection; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
<b>Solubility:</b>	DMSO : 100 mg/mL (484.68 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

3,5-Di-tert-butylphenol is a volatile organic compound with anti-biofilm and antifungal activities. 3,5-Di-tert-butylphenol induces accumulation of **reactive oxygen species (ROS)**.

### References:

[1]. 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.

[2]. 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.

### CAIndexNames:

Phenol, 3,5-bis(1,1-dimethylethyl)-

### SMILES:

OC1=CC(C(C)(C)C)=CC(C(C)(C)C)=C1

**Caution: Product has not been fully validated for medical applications. For research use only.**

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