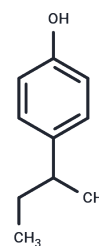


## 4-sec-Butylphenol

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 99-71-8   |
| Formula:          | C <sub>10</sub> H <sub>14</sub> O   |
| Molecular Weight: | 150.22  |
| Storage:          | Keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |  |
|---------------|--|
| Description   | 4-sec-Butylphenol is classified as a fatty alcohol organic compound.   |
| Targets(IC50) | Others   |
| In vitro      | Degradation experiments on various alkylphenols showed that strain TIK-1 cells grown on 4-sec-Butylphenol could degrade alkylphenols with different sizes and branched side chains (ethyl, n-propyl, isopropyl, n-butyl, sec-butyl, tert-butyl, n-butyl, n-pentyl, tert-pentyl, n-hexyl, n-heptyl, n-octyl, tert-octyl, n-nonyl and branched nonyl) through the meta-cleavage pathway, but could not degrade 2- or 3-alkylphenols. [1] |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 6.6569 mL | 33.2845 mL | 66.569 mL  |
| 5 mM  | 1.3314 mL | 6.6569 mL  | 13.3138 mL |
| 10 mM | 0.6657 mL | 3.3285 mL  | 6.6569 mL  |
| 50 mM | 0.1331 mL | 0.6657 mL  | 1.3314 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

Toyama T, et al. Isolation and characterization of 4-tert-butylphenol-utilizing *Sphingobium fuliginis* strains from *Phragmites australis* rhizosphere sediment. *Appl Environ Microbiol.* 2010 Oct;76(20):6733-40.

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