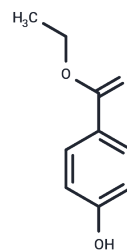


## Ethylparaben

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 120-47-8   |
| Formula:          | C <sub>9</sub> H <sub>10</sub> O <sub>3</sub>            |
| Molecular Weight: | 166.17   |
| Appearance:       | no data available  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



## Biological Description

|               |   |
|---------------|---|
| Description   | Ethylparaben (Ethyl parahydroxybenzoate) is a Standardized Chemical Allergen. The physiologic effect of ethylparaben is by means of Increased Histamine Release, and Cell-mediated Immunity.  |
| Targets(IC50) | Antibacterial,Antifungal  |
| In vitro      | Ethylparaben has weak estrogenic and weak anti-androgenic effects in vitro[2].  |
| In vivo       | In vivo studies indicate that ethylparaben has estrogenic effects in vivo in immature and ovariectomized mice. A study on fetal exposure to ethylparaben revealed no changes in male anogenital distance and no changes of fetal testosterone production, but changes in gene expression levels pointed to subtle endocrine disrupting effects. A limited study in young male rats found no adverse effects, although tendencies to lower sperm counts are seen. Ethylparaben causes vitellogenin induction in fish[2]. |

## Solubility Information

|            |  |
|------------|--|
| Solubility | H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble),<br>DMSO: 45 mg/mL (270.81 mM),Sonication is recommended.<br>Ethanol: 31 mg/mL (186.56 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 6.0179 mL | 30.0897 mL | 60.1793 mL |
| 5 mM  | 1.2036 mL | 6.0179 mL  | 12.0359 mL |
| 10 mM | 0.6018 mL | 3.009 mL   | 6.0179 mL  |
| 50 mM | 0.1204 mL | 0.6018 mL  | 1.2036 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.

Reference

Frederiksen H, et al. Toxicol Sci. 2008, 106(2):376-83.

Evaluation of tebuconazole, triclosan, methylparaben and ethylparaben according to the Danish proposal for criteria for endocrine disrupters, May 2012.

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