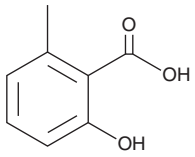
# PRODUCT INFORMATION

## 2-hydroxy-6-Methylbenzoic Acid

*Item No. 19199*

**CAS Registry No.:** 567-61-3
**Formal Name:** 2-hydroxy-6-methyl-benzoic acid
**Synonyms:** 2,6-Cresotic Acid, 6-Methylsalicylic Acid, 6-MSA, NSC 403256, 6-hydroxy-*o*-Toluic Acid
**MF:** $C_8H_8O_3$
**FW:** 152.1
**Purity:** ≥98%
**UV/Vis.:** $\lambda_{max}$: 209, 242, 308 nm
**Supplied as:** A crystalline solid
**Storage:** -20°C
**Stability:** ≥4 years




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

2-hydroxy-6-Methylbenzoic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the 2-hydroxy-6-methylbenzoic acid in the solvent of choice. 2-hydroxy-6-Methylbenzoic acid is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of 2-hydroxy-6-methylbenzoic acid in these solvents is approximately 5 mg/ml.

2-hydroxy-6-Methylbenzoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 2-hydroxy-6-methylbenzoic acid should first be dissolved in DMF and then diluted with the aqueous buffer of choice. 2-hydroxy-6-Methylbenzoic acid has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

2-hydroxy-6-Methylbenzoic acid is a constituent of *G. anandria*, a well-known traditional Chinese medicinal herb, and also produced in various fungi, including *P. patulum*, where it is a precursor to the toxin patulin (Item No. 11346).[1,2] This polyketide is a key structural moiety for many different antibiotic and anticancer agents, including chlorothricin (Item No. 15501), maduropeptin, neocarzinostatin, and terreic acid.[2,3]

### References


1. He, F., Wang, M., Gao, M., *et al.* Chemical composition and biological activities of *Gerbera anandria*. *Molecules* **19(4)**, 4046-4057 (2014).
2. Parascandolo, J.S., Havermann, J., Potter, H.K., *et al.* Insights into 6-methylsalicylic acid bio-assembly by using chemical probes. *Angew. Chem. Int. Ed. Engl.* **55(10)**, 3463-3467 (2016).
3. Guo, C.-J., Sun, W.-W., Bruno, K.S., *et al.* Molecular genetic characterization of terreic acid pathway in *Aspergillus terreus*. *Org. Lett.* **16(20)**, 5250-5253 (2014).





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