

4-Hydroxybenzoic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 4-Hydroxybenzoic acid

Catalog No.: CFN97577

Cas No.: 99-96-7

Purity: >=99%

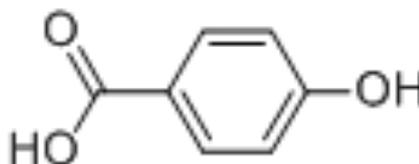
M.F: C₇H₆O₃

M.W: 138.12

Physical Description: Powder

Synonyms:4-Carboxyphenol;Para-oxybenzoic-acid;Para-hydroxy-benzoic-acid;

4-Hydroxybenzoate; Para-Hydroxybenzoic acid.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[Source]

The herbs of *Rhodiola crenulata*.

[Biological Activity or Inhibitors]

p-Hydroxy benzoic acid (PHBA) is an organic chemical which can be obtained naturally as well as synthetically, the literature survey reveals its various biological properties viz. antimicrobial, antialgal, antimutagenic, antiestrogenic, hypoglycemic, anti-inflammatory, anti-platelet aggregating, nematocidal, antiviral, antioxidant etc; it is also reported to be used as preservative in many drugs, cosmetic products, pharmaceuticals, food and beverages.^[1]

4-Hydroxybenzoic acid and trans 4-hydroxycinnamic acid have anti-bacteria activity against most of the gram-positive and some gram-negative bacteria, at IC50 concentrations of 160 and 100-170 micrograms/ml, respectively. ^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Methanol- 1 mM Aqueous trifluoroacetic acid =32::68;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Chaudhary J, Jain A, Manuja R, *et al. Int. J.Pharmaceut. Sci. Rev. Res., 2013, 22(2): 109-15.*

[2] Cho J Y, Moon J H, Seong K Y, *et al. Biosci. Biotechnol. Biochem.*, 2014, 62(11): 2273-6.

[3] Sachan A, Ghosh S, Mitra A. *Afr. J. Microbiol. Res.*, 2010, 4(4):267-73.

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