

## Pyrogallol Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Pyrogallol

**Catalog No.:** CFN97443

**Cas No.:** 87-66-1

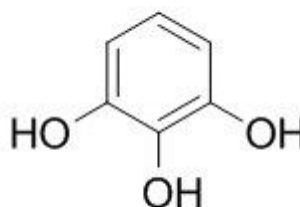
**Purity:** > 95%

**M.F:** C<sub>6</sub>H<sub>6</sub>O<sub>3</sub>

**M.W:** 126.1

**Physical Description:** Powder

**Synonyms:** 1,2,3-Trihydroxybenzen.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

### [ Source ]

The stem of *Cotinus coggygia* Scop.

### [ Biological Activity or Inhibitors ]

Pyrogallol has autoxidation activity.<sup>[1]</sup>

Pyrogallol has antiproliferative effects on human tumor cell lines.<sup>[2]</sup>

Several pyrogallol compounds as single digit micromolar inhibitors of bacterial quorum sensing in *Vibrio harveyi* .<sup>[3]</sup>

Pyrogallol as an active compound responsible for the anti-inflammatory effect of *Emblica officinalis* (EO) and suggest to extend the investigation in pre-clinical studies in airway animal models in vivo, to test the efficacy and safety of this molecule in CF chronic lung inflammatory disease.<sup>[4]</sup>

Pyrogallol inhibits the growth of Calu-6 cells via caspase-dependent apoptosis.<sup>[5]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[6]</sup>**

Mobile phase: Methanol- 0.1% Trifluoroacetic acid in water, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 266 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Gao R, Yuan Z, Zhao Z, *et al. Bioelectrochemistry & Bioenergetics*, 1998, 45(1):41-5.

[2] Khan M T, Lampronti I, Martello D, *et al. Int. J. Oncol.*, 2002, 21(1):187-92.

[3] Ni N, Choudhary G, Li M, *et al. Bioorg. Med. Chem. Lett.*, 2008, 18(5):1567-72.

[4] Nicolis E, Lampronti I, Dechecchi M C, *et al. Int. Immunopharmacol.*, 2008, 8(12): 1672-80.

[5] Han Y H, Kim S Z, Kim S H, *et al. Chem. Biol. Interact.*, 2009, 177(177):107-14.

[6] Zhang L L, Wang Y M, Xu M, *et al. Biomass Chemical Engineering*, 2015,49(2): 12-6.

## **[ Contact ]**

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