



# 1,2-Benzenediol Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

## [ Product Information ]

**Name:** 1,2-Benzenediol

**Catalog No.:** CFN99329

**Cas No.:** 120-80-9

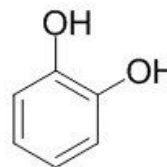
**Purity:** > 95%

**M.F:** C<sub>6</sub>H<sub>6</sub>O<sub>2</sub>

**M.W:** 110.1

**Physical Description:** Powder

**Synonyms:** Pyrocatechol; Catechol; 1,2-Dihydroxybenzene.



## [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others.

## [ Source ]

The heartwoods of *Pseudolarix amabilis*.

## [ Biological Activity or Inhibitors ]

1,2-Dihydroxybenzene (catechol) can induce spontaneous convulsive activity in the anaesthetized mouse.<sup>[1]</sup>

1,2-Dihydroxybenzene can produce myoclonic jerks in the rat.<sup>[2]</sup>

1,2-Dihydroxybenzene-containing compounds bind to and cap cysteine residues of tau and prevent its aggregation by hindering interactions between tau molecules, further, we show that orally administered DL-isoproterenol, an adrenergic receptor agonist whose skeleton includes 1,2-dihydroxybenzene and which penetrates the brain, reduces the levels of detergent-insoluble tau, neuronal loss and reverses neurofibrillary tangle-associated brain dysfunction; thus, compounds that target the cysteine residues of tau may prove useful in halting the progression of Alzheimer's disease and other tauopathies.<sup>[3]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Methanol -H<sub>2</sub>O=50:50;

Flow rate: 0.5 ml/min;

Column temperature:25 °C;

The wave length of determination: 270 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Angel A, Clarke K A, Dewhurst D G. *Brit. J. Pharmacol.*, 1977, 61(3):433-9.

[2] Angel A, Lemon R N. *Electroencephalography & Clinical Neurophysiology*, 1973, 35(6):589-601.

[3] Milosz C. *Nature Commun.*, 2015, 6(4):141-7.

[4] Ruan G H. *Environmental and health magazine*, 2002, 19 (1) : 64-5.

## **[ Contact ]**

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