

## Certificate of Analysis

**Product Name:** Homovanillic acid

**Catalog No.:** 2875

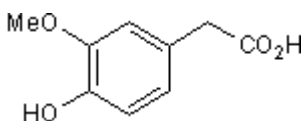
**Batch No.:** 1

CAS Number: 306-08-1

IUPAC Name: (4-Hydroxy-3-methoxyphenyl)acetic acid

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>9</sub>H<sub>10</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 182.17  
**Physical Appearance:** White crystalline solid  
**Solubility:** water to 50 mM  
DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**Melting Point:** Between 141 - 143°C  
**HPLC:** Shows >99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	59.34	5.53	
Found	59.16	5.51	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Batch No.:** 1

CAS Number: 306-08-1

IUPAC Name: (4-Hydroxy-3-methoxyphenyl)acetic acid

**Description:**

Fluorimetric reagent and major catecholamine metabolite. Used for fluorimetric determination of oxidative enzymes including glucose oxidase.

**Physical and Chemical Properties:**

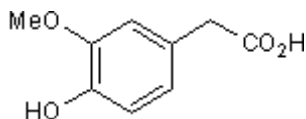
Batch Molecular Formula: C<sub>9</sub>H<sub>10</sub>O<sub>4</sub>

Batch Molecular Weight: 182.17

Physical Appearance: White crystalline solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

water to 50 mM

DMSO to 100 mM

ethanol to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Marcelis et al** (2006) Evidence that brain tissue volumes are associated with HVA reactivity to metabolite stress in schizophrenia. *Schizo.Res.* **86** 45.

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