

## L-Phenylalanine Datasheet

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

### [ Product Information ]

**Name:** L-Phenylalanine

**Catalog No.:** CFN93152

**Cas No.:** 63-91-2

**Purity:** > 98%

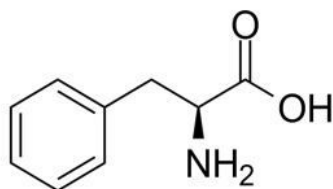
**M.F:** C<sub>9</sub>H<sub>11</sub>NO<sub>2</sub>

**M.W:** 165.19

**Physical Description:** Powder

**Synonyms:** Beta-phenylalanine;DL-2-amino-3-phenylpropanoic acid ;

L-alpha-amino-beta-phenylpropanoic acid.



### [ Intended Use ]

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

### [ Source ]

The seeds of *Glycine max* (L.) Merr.

### [ Biological Activity or Inhibitors ]

L-phenylalanine is an organ specific, stereospecific inhibitor of human intestinal alkaline phosphatase.<sup>[1]</sup>

L-phenylalanine is a inhibitor of AChE, it will possibly explain tremor and the hyperkinetic behaviour in patients with classical phenylketonuria (PKU), it can lead to problems in memory, while Na<sup>+</sup>,K<sup>+</sup>-ATPase inhibition by L-phenylalanine may induce metabolic disorders and electrical instability of the synaptosomal membrane.<sup>[2]</sup>

### [ **Solvent** ]

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

### [ **HPLC Method** ]<sup>[3]</sup>

Mobile phase: 15 mM H<sub>3</sub>PO<sub>4</sub>- Acetonitrile, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 210 nm.

### [ **Storage** ]

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

### [ **References** ]

[1] Fishman W H, Green S, Inglis N I. *Nature*, 1963, 198(198):685-6.

[2] Doulgeraki A, Papadopoulou-Daifoti Z, Tsakiris S. *Zeitschrift für Naturforschung C*, 2016, 57(1-2):182-8.

[3] Atherton N D, Green A. *Clin. Chem.*, 1988, 34(11):2241-4.

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