

# Specification

Item number: 4491

## L-Phenylalanine

≥98,5 %, Ph. Eur., for biochemistry

CAS No.: 63-91-2

print date: 09.06.2022

formula:  $C_9H_{11}NO_2$

density: 1,34

molecular weight: 165,19 g/mol

### Guarantee analysis

|                                     |                     |
|-------------------------------------|---------------------|
| Appearance                          | white cryst. powder |
| Assay (dry substance)               | 98.5-101.0 %        |
| Identity                            | complies            |
| Appearance of solution              | complies            |
| Specific rotation $[\alpha]_D^{20}$ | -35.5° to -33.0°    |
| Chloride (Cl)                       | ≤0.02 %             |
| Sulphate (SO <sub>4</sub> )         | ≤0.03 %             |
| Ammonium (NH <sub>4</sub> )         | ≤0.02 %             |
| Iron (Fe)                           | ≤0.001 %            |
| Heavy metals (as Pb)                | ≤0.001%             |
| Foreign amino acids                 | complies            |
| Loss on drying                      | ≤0.5 %              |
| Sulphated ash                       | ≤0.1 %              |

Our products are tested for laboratory use only.

The stated information refers to the current status of product quality.

We reserve the right to implement necessary changes.

**Dr. R. Niemand**

Head of Quality Assurance

**S. Lorsee**

Head of Quality Management

*This document is computer printout and has therefore not been signed by hand.*

**Carl Roth GmbH + Co. KG**  
Schoemperlenstraße 3-5  
76185 Karlsruhe

Telefon 0721/5606-0  
Telefax 0721/5606-149  
E-Mail: info@carlroth.de

Die Firma ist eine Kommanditgesellschaft mit Sitz in Karlsruhe, Reg. Gericht Mannheim HRA 100055. Persönlich haftende Gesellschafterin ist die Firma Roth Chemie GmbH mit Sitz in Karlsruhe, Reg. Gericht Mannheim HRB 100428. Geschäftsführer: André Houdelet

