

## Certificate of Analysis

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**Product Name:** Phaclofen

**Catalog No.:** 0178

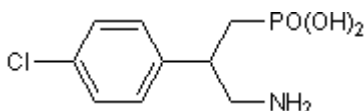
**Batch No.:** 9

**CAS Number:** 114012-12-3

**IUPAC Name:** (RS)-3-Amino-2-(4-chlorophenyl)propylphosphonic acid

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>9</sub>H<sub>13</sub>ClNO<sub>3</sub>P  
**Batch Molecular Weight:** 249.63  
**Physical Appearance:** White solid  
**Solubility:** 1eq. NaOH to 25 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.65 (Pyridine:Acetic acid:Water:Butanol [3:8:11:22])  
**HPLC:** Shows 97.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

Carbon Hydrogen Nitrogen

Theoretical	43.3	5.25	5.61
Found	43.06	5.23	5.46

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

## Product Information

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**CAS Number:** 114012-12-3

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### Description:

Selective GABA<sub>B</sub> antagonist. Phosphono analog of GABA<sub>B</sub> agonist baclofen (Cat. No. 0417).

### Physical and Chemical Properties:

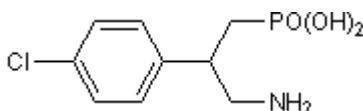
Batch Molecular Formula: C<sub>9</sub>H<sub>13</sub>ClNO<sub>3</sub>P

Batch Molecular Weight: 249.63

Physical Appearance: White solid

**Minimum Purity:** >97%

### Batch Molecular Structure:



**Storage:** Store at RT

### Solubility & Usage Info:

1eq. NaOH to 25 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:

**Kerr *et al*** (1987) Phaclofen: a peripheral and central baclofen antagonist. *Brain Res.* **405** 150. PMID: 3032346.

**Hasuo and Gallagher** (1988) Comparison of antagonism by phaclofen of baclofen induced hyperpolarization and synaptically mediated late hyperpolarizing potentials recorded intracellularly from rat dorsolateral septal neurons. *Neurosci.Lett.* **86** 77. PMID: 3362432.

**Karlsson *et al*** (1988) Phaclofen: a GABA<sub>B</sub> blocker reduced long-duration inhibition in the neocortex. *Eur.J.Pharmacol.* **148** 485. PMID: 2838310.

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### bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

### North America

Tel: (800) 343 7475

### China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

### Europe Middle East Africa

Tel: +44 (0)1235 529449

### Rest of World

[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956