

## Certificate of Analysis

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**Product Name:** Phencyclidine hydrochloride

**Catalog No.:** 2557

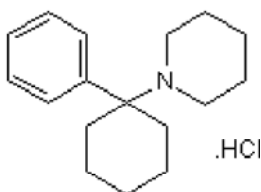
**Batch No.:** 8

CAS Number: 956-90-1

IUPAC Name: 1-(1-Phenylcyclohexyl)piperidine hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>25</sub>N.HCl  
**Batch Molecular Weight:** 279.85  
**Physical Appearance:** White solid  
**Solubility:** water to 40 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.48 (2% 7M methanolic ammonia/DCM)  
**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

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

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**Batch No.:** 8

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IUPAC Name: 1-(1-Phenylcyclohexyl)piperidine hydrochloride

**Description:**

Phencyclidine hydrochloride is a non-competitive NMDA receptor antagonist and sigma receptor agonist. Psychostimulant; induces rotational behavior, head-weaving and cognitive dysfunction in rats.

**Physical and Chemical Properties:**

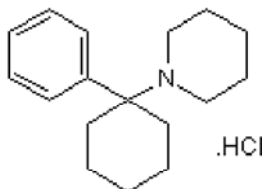
Batch Molecular Formula: C<sub>17</sub>H<sub>25</sub>N.HCl

Batch Molecular Weight: 279.85

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water to 40 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.

**Other Information:**

**INFORMATION FOR CUSTOMERS IN THE UK ONLY**

This product is a Schedule 2 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

**References:**

**Jin *et al*** (1997) The involvement of  $\sigma$  receptors in the choice reaction performance deficits induced by phencyclidine. *Eur.J.Pharmacol.* **319** 147. PMID: 9042584.

**Sharp** (1997) Phencyclidine (PCP) acts at  $\sigma$  sites to induce *c-fos* gene expression. *Brain Res.* **758** 51. PMID: 9203533.

**Linders *et al*** (1993) Synthesis and binding properties of MK-801 isothiocyanates; (+)-3-isothiocyanato-5-methyl-10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5,10-imine hydrochloride: a new potent and selective electrophilic affinity ligand for the NMDA receptor-c. *J.Med.Chem.* **36** 2499. PMID: 8355251.

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