1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{17}\text{H}_{25}\text{N.HCl} \)

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: \( R_f = 0.48 \) (2% 7M methanolic ammonia/DCM)

HPLC: Shows 100% purity

\(^1\text{H NMR}: \) Consistent with structure

Mass Spectrum: Consistent with structure
**Product Information**

**Product Name:** Phencyclidine hydrochloride

**CAS Number:** 956-90-1

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

**Catalog No.:** 2557  
**Batch No.:** 8

**Description:**
Non-competitive NMDA receptor antagonist and sigma receptor agonist. Psychostimulant; induces rotational behavior, head-weening and cognitive dysfunction in rats.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C_{17}H_{26}N.HCl
- **Batch Molecular Weight:** 279.85
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**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.

**INFORMATION FOR CUSTOMERS IN THE USA ONLY**
This product is a Schedule II DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

**INFORMATION FOR CUSTOMERS IN CANADA ONLY**
This product is a Schedule I CDSA controlled substance and customers in Canada require an import permit to purchase this material.

**References:**

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

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