Product Name: Ketamine hydrochloride
CAS Number: 1867-66-9
IUPAC Name: 2-(2-Chlorophenyl)-2-(methylamino)cyclohexanone hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{13}\text{H}_{16}\text{ClNO}\cdot\text{HCl} \)
Batch Molecular Weight: 274.19
Physical Appearance: White crystalline solid
Solubility: water to 100 mM
Storage: Store at RT
Batch Molecular Structure:

![Molecular Structure]

2. ANALYTICAL DATA

HPLC: Shows >99.9% purity

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

**Product Name:** Ketamine hydrochloride

**CAS Number:** 1867-66-9

**IUPAC Name:** 2-(2-Chlorophenyl)-2-(methyl amino)cyclohexanone hydrochloride

**Catalog No.:** 3131

**EC Number:** 217-484-6

**Batch No.:** 1

**Description:**
Ketamine hydrochloride is a non-competitive NMDA receptor antagonist (EC50 values are 13.6 and 17.6 μM for GluN1/GluN2A (formally NR1 and NR2A, respectively) and GluN1/GluN2B (formally NR1 and NR2B, respectively) subunit combinations respectively). Dissociative anesthetic. S-enantiomer and Active metabolite also available. Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions. Please see product specific page on www.tocris.com for full description.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C13H16CINO.HCl
- **Batch Molecular Weight:** 274.19
- **Physical Appearance:** White crystalline solid
- **Minimum Purity:** ≥99%

**Storage:** Store at RT

**Solubility & Usage Info:**
- Water to 100 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:**