

## LYFEUNIT PHARMACEUTICAL SOLUTIONS TECHNICAL DATA SHEET (TDS)

**Product Name:** Ketamine Hydrochloride USP (Crystalline Powder) **CAS Number:** 1867-66-9  
**EINECS Number:** 217-484-6 **Document Version:** 2026.01

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### 1. PRODUCT IDENTIFICATION

Trade Name: LyfeUnit Pharmaceutical-Grade Ketamine HCl Chemical Name:  
2-(2-Chlorophenyl)-2-(methylamino)cyclohexan-1-one hydrochloride Molecular Formula:  
C<sub>13</sub>H<sub>16</sub>ClNO . HCl Molecular Weight: 274.19 g/mol Primary Link:  
<https://lyfeunit.com/product/buy-ketamine-powder/>

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### 2. TECHNICAL SPECIFICATIONS (USP STANDARDS)

Appearance: Fine, white, odorless crystalline powder Purity (Assay by HPLC): Greater than or equal to 99.0% Melting Point: 262 to 263 Degrees Celsius Solubility: 200 mg/mL in distilled water; soluble in methanol pH Level (10% aqueous solution): 3.5 to 5.5 Loss on Drying: Less than or equal to 0.5% Residue on Ignition: Less than or equal to 0.1% Heavy Metals: Less than or equal to 20 ppm

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### 3. CLINICAL AND RESEARCH APPLICATIONS

This pharmaceutical ingredient is specifically engineered for:

- Neuroplasticity Protocols: Facilitating the 72-hour neuroplasticity window.
- TRD Management: Clinical compounding for Treatment-Resistant Depression.
- Glutamate Modulation: High-precision NMDA receptor research.
- Veterinary Medicine: Professional-grade anesthesia and analgesia.

Reference Guide: <https://lyfeunit.com/72-hour-neuroplasticity-window-after-ketamine-results/>