**Product Information**

**α-Pyrrolidinopropiophenone (hydrochloride)**
*Item No. 10445*

**CAS Registry No.:** 92040-10-3  
**Formal Name:** 1-phenyl-2-(1-pyrrolidinyl)-1-propanone, monohydrochloride  
**Synonym:** α-PPP  
**MF:** \( \text{C}_{17}\text{H}_{27}\text{NO} \cdot \text{HCl} \)  
**FW:** 239.7  
**Purity:** ≥97%  
**Stability:** ±2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis:** \( \lambda_{\text{max}} = 250 \text{ nm} \)

**Laboratory Procedures**
For long term storage, we suggest that α-pyrrolidinopropiophenone (α-PPP) (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

α-PPP (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the α-PPP (hydrochloride) in the solvent of choice. α-PPP (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of α-PPP (hydrochloride) in these solvents is approximately 3 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of α-PPP (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of α-PPP (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

α-PPP (hydrochloride) is an analog of the appetite suppressant diethylcathinone and is related to the designer drug 4'-methyl-α-pyrrolidinopropiophenone (MPPP). In male Wistar rats, it is metabolized to a variety of products, including cathinone, the main psychoactive alkaloid of kath (*Catha edulis*).\(^1\)\(^2\) α-PPP (hydrochloride) is intended to be used for forensic applications.

**References**

**Related Products**
- Item No. 10443 • 3'-Fluoromethylcathinone (hydrochloride) - Item No. 10446 • 3-Fluoromethcathinone (hydrochloride) - Item No. 10730 • 4-methyl-Methcathinone (hydrochloride) - Item No. 10801 • 4-Methylethcathinone (hydrochloride) - Item No. 9001069

**WARNING:** This product is for laboratory research only; not for administration to humans, not for human or veterinary diagnostic or therapeutic use.

**MATERIAL SAFETY DATA**
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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The limitations of liability do not apply in the case of intentional acts or negligence of Cayman, its directors or its employees. Bayer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Bayer, of all material that does not meet our specifications.

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