**PRODUCT INFORMATION**

3,4-Methylenedioxo-N-benzylcathinone (hydrochloride)

*Item No. 9001330*

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**CAS Registry No.:** 1823274-68-5  
**Formal Name:** 1-(1,3-benzodioxol-5-yl)-2-[[phenylmethyl]amino]-1-propanone, monohydrochloride  
**Synonym:** BMDP  
**MF:** C\textsubscript{17}H\textsubscript{17}NO\textsubscript{3} • HCl  
**FW:** 319.8  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** \(\lambda_{\text{max}}\): 204, 234, 281, 319 nm

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**Laboratory Procedures**

For long term storage, we suggest that 3,4-methylenedioxy-N-benzylcathinone (BMDP) (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

BMDP (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the BMDP (hydrochloride) in the solvent of choice. BMDP (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of BMDP (hydrochloride) in ethanol is approximately 3 mg/ml and approximately 5 mg/ml in DMSO and DMF.

BMDP (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BMDP (hydrochloride) should first be dissolved in DMF and then diluted with the aqueous buffer of choice. BMDP (hydrochloride) has a solubility of approximately 0.13 mg/ml in a 1:7 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

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**Description**

Substituted cathinones are psychoactive compounds sold in packets labeled as bath salts or plant food.\textsuperscript{1,2} BMDP is a substituted cathinone that is structurally analogous to methylone, a narcotic that is regulated in the United States. This compound has a phenyl group added to the amino methyl group, substantially decreasing its solubility in aqueous solutions. The physiological and toxicological properties of this compound are not known. This product is intended for research and forensic applications.

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**References**