1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{14}\text{H}_{19}\text{NO}_{2}\cdot\text{HCl} \)

Batch Molecular Weight: 269.77

Physical Appearance: White solid

Solubility:
- water to 50 mM
- ethanol to 100 mM

Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

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

Mass Spectrum:
Consistent with structure
**Product Name:** Threo-methylphenidate hydrochloride  
**Catalog No.:** 1812  
**Batch No.:** 2  
**CAS Number:** 298-59-9  
**EC Number:** 206-065-3  
**IUPAC Name:** Threo-methyl α-Phenyl-2-piperidineacetate hydrochloride

**Description:**  
Psychomotor stimulant. Inhibitor of dopamine and noradrenalin transporters that increases the extracellular concentration of dopamine and noradrenalin. Increases locomotor activity in vivo.

**Physical and Chemical Properties:**  
- **Batch Molecular Formula:** C_{14}H_{18}NO_{2}.HCl  
- **Batch Molecular Weight:** 269.77  
- **Physical Appearance:** White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**  
- water to 50 mM  
- ethanol 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:**  