1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( C_{17}H_{17}ClN_4 \cdot 0.25H_2O \)
   Batch Molecular Weight: 317.3
   Physical Appearance: Yellow solid
   Solubility: ethanol to 100 mM
              DMSO to 100 mM
   Storage: Store at RT

2. ANALYTICAL DATA

   TLC: \( R_f = 0.3 \) (Ethyl acetate:Methanol [1:1])
   Melting Point: Between 116 - 130°C
   HPLC: Shows 99.4% purity
   \(^1H\) NMR: Consistent with structure
   Microanalysis:
   Carbon  Hydrogen  Nitrogen
   Theoretical 64.35  5.56  17.66
   Found 64.46  5.34  17.44
**Product Information**

**Product Name:** N-Desmethylclozapine  
**Catalog No.:** 1007  
**Batch No.:** 2

**CAS Number:** 6104-71-8  
**IUPAC Name:** 8-Chloro-11-(1-piperazinyl)-5H-dibenzo[b,e][1,4]diazepine

**Description:**  
A major metabolite of clozapine; a potent and selective 5-HT<sub>2C</sub> serotonin receptor antagonist.

**Physical and Chemical Properties:**  
- **Batch Molecular Formula:** C<sub>17</sub>H<sub>17</sub>ClN<sub>4</sub>.½H<sub>2</sub>O  
- **Batch Molecular Weight:** 317.3  
- **Physical Appearance:** Yellow solid  

**Minimum Purity:** >99%

**Storage:** Store at RT

**Solubility & Usage Info:**  
- ethanol to 100 mM  
- DMSO 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. Whereever possible solutions should be made up and used on the same day.

**Other Information:**  
**INFORMATION FOR CUSTOMERS IN CANADA ONLY**  
This product is a Schedule IV CDSA controlled substance and customers in Canada require an import permit to purchase this material.

**References:**  
