1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{17} \text{H}_{17} \text{ClN}_{4} \cdot \frac{1}{4} \text{H}_2 \text{O} \)

Batch Molecular Weight: 317.3

Physical Appearance: Yellow solid

Solubility: ethanol to 100 mM  
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:

![Molecular Structure Image]

2. ANALYTICAL DATA

TLC: \( R_f = 0.3 \) (Ethyl acetate:Methanol [1:1])

Melting Point: Between 116 - 130°C

HPLC: Shows 99.4% purity

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

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>64.35</td>
<td>64.46</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.56</td>
<td>5.34</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>17.66</td>
<td>17.44</td>
</tr>
</tbody>
</table>
Product Information

Product Name: N-Desmethyloclozapine

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

Catalog No.: 1007
Batch No.: 2

Description:
A major metabolite of clozapine; a potent and selective 5-HT$_{2C}$ serotonin receptor antagonist.

Physical and Chemical Properties:
Batch Molecular Formula: C$_{17}$H$_{17}$ClN$_{4}$.$\frac{1}{4}$H$_2$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. Wherever possible solutions should be made up and used on the same day.

References:
