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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(\text{C}_{17}\text{H}_{17}\text{ClN}_{4}.\frac{1}{4}\text{H}_{2}\text{O}\)
Batch Molecular Weight: 317.3
Physical Appearance: Yellow solid
Solubility: ethanol to 100 mM
DMSO to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \(R_f = 0.3\) (Ethyl acetate:Methanol [1:1])
Melting Point: Between 116 - 130°C
HPLC: Shows 99.4% purity
\(^1\text{H NMR}:\) Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th>Element</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>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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**Catalog No.:** 1007  
**Batch No.:** 2

**CAS Number:** 6104-71-8  
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**Description:**
A major metabolite of clozapine; a potent and selective 5-HT₂C serotonin receptor antagonist.

**Physical and Chemical Properties:**
Batch Molecular Formula: C₁₇H₁₇ClN₄.½H₂O  
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:**