Product Name: Clomipramine hydrochloride
Catalog No.: 0457
Batch No.: 6

CAS Number: 17321-77-6
EC Number: 241-344-3
IUPAC Name: 3-Chloro-10,11-dihydro-N,N-dimethyl-5H-dibenz(Z)[b,f]azepine-5-propanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₃ClN₂.HCl
Batch Molecular Weight: 351.32
Physical Appearance: White solid
Solubility: Water to 100 mM
Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 98.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
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<tr>
<th></th>
<th>Carbon</th>
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<th>Nitrogen</th>
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<td>8.09</td>
</tr>
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</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Batch No.: 6

CAS Number: 17321-77-6
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IUPAC Name: 3-Chloro-10,11-dihydro-\(\text{N},\text{N}\)-dimethyl-5\(\text{H}\)-dibenz\(\text{Z},\text{f}\)azepine-5-propanamine hydrochloride

Description:
Potent, selective 5-HT uptake blocker. Antidepressant. Binds to the human 5-HT transporter with a K\(_i\) of 0.05 nmol/l.

Physical and Chemical Properties:
Batch Molecular Formula: \(\text{C}_{19}\text{H}_{29}\text{ClN}_2\cdot\text{HCl}\)
Batch Molecular Weight: 351.32
Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:
water 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:
Merck Index 12 2447.