1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{10}H_{16}N_8S_2$
Batch Molecular Weight: 312.41
Physical Appearance: White solid
Solubility: ethanol to 10 mM
DMSO to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: $R_f = 0.39$ (Ethyl acetate:Methanol [2:1])
Melting Point: At 166°C
HPLC: Shows 99.5% purity
$^1$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>38.44</td>
<td>38.45</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.16</td>
<td>5.14</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>35.87</td>
<td>36.1</td>
</tr>
</tbody>
</table>
Product Name: Tiotidine
CAS Number: 69014-14-8

Description:
Potent histamine H₂-receptor antagonist with negligible activity against H₁- and H₃-receptors.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₂H₁₂N₈S₂
Batch Molecular Weight: 312.41
Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:
ethanol to 10 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: