1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_6\text{H}_{10}\text{N}_4$

Batch Molecular Weight: 138.17

Physical Appearance: White solid

Solubility: water to 100 mM

DMSO to 100 mM

Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 100% purity

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

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>52.16</td>
<td>52.09</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.29</td>
<td>7.32</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>40.55</td>
<td>40.28</td>
</tr>
</tbody>
</table>
Product Name: Pentylengenetetrazole

CAS Number: 54-95-5
IUPAC Name: 6,7,8,9-Tetrahydro-5H-tetrazolo[1,5-a]azepine

Description:
CNS stimulant that induces kindling in vivo. Causes alterations in excitatory and inhibitory neurotransmitter systems.

Physical and Chemical Properties:
Batch Molecular Formula: C₇H₁₀N₄
Batch Molecular Weight: 138.17
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:
- water 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: