1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{10}\text{H}_{9}\text{N} \text{O}_6 \cdot \frac{1}{3}\text{H}_2\text{O} \)

Batch Molecular Weight: 270.7

Physical Appearance: White solid

Solubility: water to 50 mM

Storage: Desiccate at RT

Batch Molecular Structure:

\[ \begin{array}{c}
\text{H}_2\text{N} \\
\text{CO}_2\text{H} \\
\text{CO}_2\text{H}
\end{array} \]

2. ANALYTICAL DATA

TLC: \( R_f = 0.33 \) (Pyridine:Acetic acid:Water:Butanol [3:8:11:14])

Melting Point: Greater than 300°C

HPLC: Shows 100% purity

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

Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>44.37</td>
<td>44.56</td>
</tr>
<tr>
<td>4.65</td>
<td>4.5</td>
</tr>
<tr>
<td>5.17</td>
<td>4.99</td>
</tr>
</tbody>
</table>
Product Name: (RS)-3,4-DCPG
CAS Number: 176796-64-8
IUPAC Name: (RS)-3,4-Dicarboxyphenylglycine

Description:
Systemically active anticonvulsant that is 30-100-fold more potent in vivo than the separate enantiomers (S)-3,4-DCPG (Cat. No. 1302) or (R)-3,4,-DCPG (Cat. No. 1395).

Physical and Chemical Properties:
Batch Molecular Formula: C_{10}H_{9}NO_{5}.1\frac{1}{4}H_{2}O
Batch Molecular Weight: 270.7
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

Storage: Desiccate at RT

Solubility & Usage Info:
water to 50 mM
CAUTION - Analysis shows that this material rapidly decomposes when dissolved in alkaline solution. Therefore we recommend that this product is dissolved in water.

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: