Product Name: (RS)-CPP
CAS Number: 100828-16-8
IUPAC Name: (RS)-3-(2-Carboxypiperazin-4-yl)-propyl-1-phosphonic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₇N₂O₅P·2H₂O
Batch Molecular Weight: 288.24
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Desiccate at RT

2. ANALYTICAL DATA

TLC: Rₛ = 0.18 (Pyridine:Acetic acid:Water:Butanol [3:8:11:22])
³H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>33.34</td>
<td>7.34</td>
<td>9.72</td>
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<tr>
<td>Found</td>
<td>33.06</td>
<td>6.95</td>
<td>9.55</td>
</tr>
</tbody>
</table>
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**Description:**  
Potent NMDA antagonist. Separate isomer (R)-CPP also available (Cat. No. 0247).

**Physical and Chemical Properties:**  
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Batch Molecular Weight: 288.24  
Physical Appearance: White solid  

**Storage:** Desiccate 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:**  