Product Name: Carboxy-PTIO, potassium salt
Catalog No.: 0772
Batch No.: 6

CAS Number: 148819-94-7
IUPAC Name: 2-(4-Carboxyphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide, potassium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

- Batch Molecular Formula: $\text{C}_{14}\text{H}_{16}\text{KN}_{2}\text{O}_{4}\cdot\frac{1}{2}\text{H}_{2}\text{O}$
- Batch Molecular Weight: 324.39
- Physical Appearance: Dark blue solid
- Solubility: ethanol to 25 mM, water to 10 mM
- Storage: Desiccate at -20°C
- Batch Molecular Structure:

![Molecular Structure Image]

2. ANALYTICAL DATA

- TLC: $R_f = 0.75$ (Chloroform:Methanol [1:1])
- Mass Spectrum: Consistent with structure
- Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
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<tbody>
<tr>
<td>Carbon</td>
<td>51.84</td>
<td>51.74</td>
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<tr>
<td>Hydrogen</td>
<td>5.28</td>
<td>5.26</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>8.64</td>
<td>8.59</td>
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</tbody>
</table>
Product Information

Product Name: Carboxy-PTIO, potassium salt
Catalog No.: 0772  Batch No.: 6

Description:
A stable, water-soluble free radical that reacts stoichiometrically with NO. Almost twice as strong an inhibitor as N(ω)nitroarginine or N-methylarginine.

Physical and Chemical Properties:
Batch Molecular Formula: C_{14}H_{16}KN_{6}O_{4}·\frac{1}{2}H_{2}O
Batch Molecular Weight: 324.39
Physical Appearance: Dark blue solid

Batch Molecular Structure:

Storage: Desiccate at -20°C

Solubility & Usage Info:
ethanol to 25 mM
water to 10 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: