1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $\text{C}_7\text{H}_{12}\text{N}_2\text{O}_4\text{S}$
- **Batch Molecular Weight:** 220.24
- **Physical Appearance:** Green solid
- **Solubility:** DMSO to 100 mM
- **Storage:** Store at -20°C

![Batch Molecular Structure]

2. ANALYTICAL DATA

- **$^1$H NMR:** Consistent with structure

<table>
<thead>
<tr>
<th>Microanalysis</th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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<tbody>
<tr>
<td>Theoretical</td>
<td>38.17</td>
<td>5.49</td>
<td>12.72</td>
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<tr>
<td>Found</td>
<td>38.22</td>
<td>5.44</td>
<td>12.62</td>
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</tbody>
</table>
Product Name: SNAP
CAS Number: 79032-48-7
IUPAC Name: (S)-Nitroso-N-acetylpenicillamine

**Description:**
A stable analog of endogenous S-nitroso compounds. A source of NO in vivo which unlike organic O-nitrates does not induce tolerance. Decomposes slowly in solution with a $t_{1/2}$ of 37h.

**Physical and Chemical Properties:**
Batch Molecular Formula: C$_7$H$_{12}$N$_2$O$_5$S
Batch Molecular Weight: 220.24
Physical Appearance: Green solid

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**Storage:** Store at -20°C

**Solubility & Usage Info:**
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:**


