1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{30}\text{H}_{34}\text{O}_{13}$

Batch Molecular Weight: 602.59

Physical Appearance: White solid

Solubility: ethanol to 50 mM with gentle warming
DMSO to 100 mM

Storage: Store at RT

2. ANALYTICAL DATA

Melting Point: Between 200 - 202°C

HPLC: Shows 98% purity

$^1$H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D = -29.8$ (Concentration = 1, Solvent = Ethanol)

Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>59.8</td>
<td>60.2</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.69</td>
<td>5.67</td>
</tr>
</tbody>
</table>

Certificate of Analysis

www.tocris.com
**Product Information**

**Product Name:** Picrotoxin  
**Catalog No.:** 1128  
**Batch No.:** 17  
**CAS Number:** 124-87-8  
**EC Number:** 204-716-6

**Description:**  
GABA<sub>A</sub> receptor antagonist; potent CNS stimulant.

**Physical and Chemical Properties:**  
- **Batch Molecular Formula:** C<sub>39</sub>H<sub>34</sub>O<sub>13</sub>  
- **Batch Molecular Weight:** 602.59  
- **Physical Appearance:** White solid

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**  
- Ethanol to 50 mM with gentle warming  
- DMSO to 100 mM

**Potent Neurotoxin - Treat as Extremely Poisonous**

**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:**

- Merck Index **12** 7570.