1,1',2,2' Tetramyristoyl Cardiolipin (sodium salt)

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Physical state</th>
<th>Purity</th>
<th>Transition temp.</th>
<th>CAS</th>
<th>CMC</th>
<th>Synonyms</th>
<th>Molec. Formula</th>
<th>TLC mobile phase</th>
<th>MW</th>
<th>Exact Mass</th>
<th>Percent composition</th>
<th>Stability</th>
<th>Solubility</th>
<th>Web link</th>
</tr>
</thead>
<tbody>
<tr>
<td>750332</td>
<td>Powder; chloroform solution</td>
<td>&gt; 99%</td>
<td>No data</td>
<td>63988-21-6</td>
<td>No data</td>
<td>14:0 CA</td>
<td>C₆₅H₁₂₄O₁₇P₂Na₂</td>
<td>C:M:W* &amp; C:M:A* 65:25:4, v/v; C:Hexane:M:Acetic Acid 50:30:10:5, v/v, if want to see PG</td>
<td>1,285.600</td>
<td>1,284.810</td>
<td>C 60.73% H 9.72% O 21.16% P 4.82%</td>
<td>Store in &lt;-20°C freezer for 12 months</td>
<td>Soluble in chloroform and alcohol (warmed with water content 3-5%) at concentrations up to 10 mg/mL. Insoluble in water and acetone.</td>
<td>750332</td>
</tr>
</tbody>
</table>

* chloroform:methanol:water and chloroform:methanol:acetone

**Description:**
Cardiolipin, the mitochondrial-specific phospholipid, helps maintain mitochondrial function, membrane potential and structural support for the inner mitochondrial membrane and the proteins in it (Chicco and Sparagna, 2007). Concentration and composition changes of cardiolipin have been implicated in pathological conditions including ischemia, hypothyroidism, aging, heart failure and cardioskeletal myopathy (Barth syndrome) (Chicco and Sparagna, 2007). Cardiolipin has also been shown as a signaling molecule in apoptosis (Kagan et al, 2006; Ritov et al, 2006).

**Product use:**
Soluble in chloroform and alcohol (warmed with water content 3-5%) at concentrations up to 10 mg/mL. Insoluble in water and acetone. Also used in liposomes. Please use the following web link for liposome preparation.

**References:**

**Related products:** cardiolipins

**MSDS:** see www.avantilipids.com for product number 750332