# Aminophylline Dihydrate

**Product Information**

<table>
<thead>
<tr>
<th>Product ID</th>
<th>CAS No.</th>
<th>Chemical Name</th>
<th>Synonym</th>
<th>Formula</th>
<th>Formula Wt.</th>
<th>Melting Point</th>
<th>Solubility</th>
<th>Purity</th>
<th>Store Temp</th>
<th>Ship Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5135</td>
<td></td>
<td>3,7-Dihydro-1,3-dimethyl-1H-purine-2,6-dione</td>
<td>Theophylline compound with ethylenediamine</td>
<td>C_{16}H_{24}N_{10}O_{4} • 2H_{2}O</td>
<td>456.47</td>
<td>≥98%</td>
<td>Soluble in water (1g/5mL). Insoluble in alcohol and ether.</td>
<td></td>
<td>Ambient</td>
<td>Ambient</td>
</tr>
</tbody>
</table>

**Description**

Aminophylline is a non-selective adenosine receptor antagonist and phosphodiesterase (PDE) inhibitor. Aminophylline exhibits vasodilatory and anti-inflammatory activity and is occasionally clinically used to treat chronic obstructive pulmonary disorder (COPD). In animal models of allergen-induced lung inflammation, aminophylline decreases levels of IL-5, IL-8, and eosinophils.

**References**


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**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.