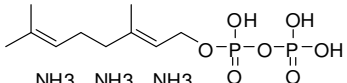




## Certificate of Analysis

**Axon Catalogue ID:** 1489 **Batch Number:** 12  
**Product Name:** Geranyl pyrophosphate ammonium salt  
**Alternative Name(s):** GPP  
**IUPAC Name:** (E)-3,7-dimethylocta-2,6-dienyl trihydrogen diphosphate triammonium salt

**Structure:**  **Amount:**

**CAS number(s):** 763-10-0 (parent), 116057-55-7 (NH<sub>3</sub> (1:3))  
**Molecular Formula:** C<sub>10</sub>H<sub>20</sub>O<sub>7</sub>P<sub>2</sub>.2.75NH<sub>3</sub> **Molecular Weight:** 361.04  
**Batch Molecular Formula:** C<sub>10</sub>H<sub>20</sub>O<sub>7</sub>P<sub>2</sub>.2.75NH<sub>3</sub>.1H<sub>2</sub>O **Batch Molecular Weight:** 379.06  
**Appearance:** White solid **Observed mp:** 154 °C  
**TLC (R<sub>f</sub>):** 0.8 IPA/H<sub>2</sub>O/EtOAc (6:3:1)  
**Chemical Purity:** >98%  
**Optical Purity (ee):** N.A.  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 31.69, H 8.04, N 10.16; Found: C 32.09, H 7.85, N 9.78  
**Storage Conditions:** Desiccate at -20 °C

<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water	37.9	>100 mM	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	0.0	0.0	Insoluble
	EtOH			Not Tested

**Remarks:** Suspected to be slightly hygroscopic and sensitive to decomposition in moisture.

**QC Date:** 17-01-2020

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**