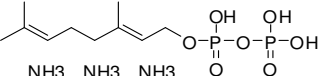




Certificate of Analysis

Axon Catalogue ID: 1489 **Batch Number:** 14
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 (NH₃ (1:3))
Molecular Formula: C₁₀H₂₀O₇P₂.2.5NH₃ **Molecular Weight:** 356.79
Batch Molecular Formula: C₁₀H₂₀O₇P₂.2.5NH₃.1.25H₂O **Batch Molecular Weight:** 379.30
Appearance: White solid **Observed mp:** 125 - 128 °C
TLC (R_f): 0.15 IPA/12N-NH₃(aq)/H₂O (6:3:1)
Chemical Purity: 95%
¹H-NMR: Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 31.67, H 7.97, N 9.23; Found: C 31.39, H 7.80, N 9.35
Storage Conditions: Desiccate at -20 °C

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

Remarks: Suspected to be slightly hygroscopic and sensitive to decomposition in moisture. Suspected to be sensitive to oxidation, store under nitrogen. Purity based on NMR.

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 indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only