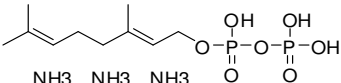




Certificate of Analysis

Axon Catalogue ID: 1489 **Batch Number:** 4
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: C₁₀H₂₀O₇P₂.2.5NH₃.0.5H₂O **Batch Molecular Weight:** 365.79
Appearance: Off-white solid **Observed mp:** >160 °C (decomp)
TLC (R_f): 0.8 IPA/H₂O/EtOAc (6:3:1)
Chemical Purity: 98%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 32.83, H 7.85, N 9.57; Found: C 32.69, H 7.50, N 9.29
Storage Conditions: Desiccate at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	36.6	>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: 03-12-2018

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