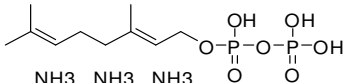




Certificate of Analysis

Axon Catalogue ID: 1489 **Batch Number:** 3
Product Name: Geranyl pyrophosphate triammonia 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: C₁₀H₂₀O₇P₂.3NH₃ **Molecular Weight:** 365.30
Batch Molecular Formula: C₁₀H₂₀O₇P₂.3NH₃.3.5H₂O **Batch Molecular Weight:** 428.35
Appearance: White solid **Observed mp:** >160 °C (decomp)
TLC (R_f): 0.83 IPA/H₂O/EtOAc (6:3:1)
Chemical Purity: 98.0%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 24.93, H 8.37, N 11.63; Found: C 25.36, H 8.35, N 11.25
Storage Conditions: Desiccate at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	42.8	>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 hygroscopic.

QC Date: 19-10-2018

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