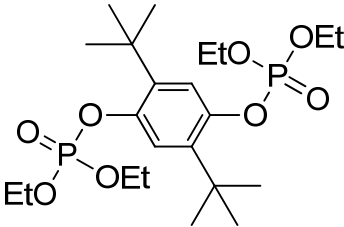


Description	2,5-di-tert-butyl-1,4-phenylene tetraethyl bis(phosphate)
CAS	1350767-15-5
Formula	C ₂₂ H ₄₀ O ₈ P ₂
FW	494.50
LOT #	TD1-253
Purity	99%
Batch Size	1815 g
Manufactured	7/20/2011
Structure	

Analysis	Instrument/Method	Results	Analysis By:
HPLC	Agilent 1260 Infinity Agilent Eclipse Plus C18, 3.5 um, 4.6x100, UV 225, water/ACN gradient	99.0% ^{1,2}	T. Dzwiniel
Melting Point	Buchi M-565 Automatic, range method	87-89°C	T. Dzwiniel
KF Moisture Titration	KEM MCU-610 Coulometric, WaterMark 1612/1613	190 ppm	K. Pupek
FTIR	Bruker Vertex 70 Attenuated Total Reflection	Consistent with Structure	S. Gallagher
NMR	Bruker 500 MHz, CDCl ₃ solution ¹ H, ¹³ C, ³¹ P observed in CDCl ₃ solution	Consistent with Structure	T. Dzwiniel

¹ By area integration.

² Average from three analyses.

Properties	Value
Redox Potential (vs Li⁺/Li)	4.80
Solubility in Electrolyte (1.2M LiPF₆ EC/EMC (3/7 V/V))	0.5 M