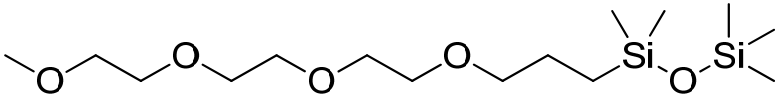


Description	2,2,4,4-tetramethyl-3,8,11,14,17-pentaoxa-2,4-disilaoctadecane
CAS #	855996-83-7
Formula	C ₁₅ H ₃₆ O ₅ Si ₂
FW	352.61
LOT #	KP01057
Purity	>99.9%
Batch Size	1177 g
Manufactured	6/24/2011
Structure	

Analysis	Instrument/Method	Results	Analysis By:
GC/MSD	Agilent 7890A/5975C Triple-Axis Agilent DB-5MS, 0.25 um, 30m x 0.250 mm, 40 to 300 deg, 30 deg/min	>99.9% ^{1,2}	K. Pupek
GC/FID	Agilent 7890A Agilent HP-5MS, 0.25 um, 30m x 0.250 mm, 40 to 300 °C, 25 °C/min	>99.7% ^{1,2,3}	K. Pupek
Boiling Point	Buchi M-565 Automatic, 0.6 Hz	269-271°C	T. Dzwiniel
KF Moisture Titration	KEM MCU-610 Hydranal [®] Coulomat AG/CG	57 ppm ³	K. Pupek
FTIR	Bruker Vertex 70 Attenuated Total Reflection	Consistent with Structure	S. Gallagher
NMR	Bruker 500 MHz ¹ H, ¹³ C observed in CDCl ₃ solution	Consistent with Structure	K. Pupek

¹ By area integration.

² Average from three injections.

³ Determined 07/09/2013.

Properties	Value
Dielectric Constant	4.28
Viscosity (cP, @25°C)	3.8
Lithium Salt Solubility (M, as LiPF₆)	1.2
Ionic Conductivity (10⁻³S/cm @ 25°C)	0.37
Voltage Stability (Oxidation, V)	4.4