



## Technical Data Sheet

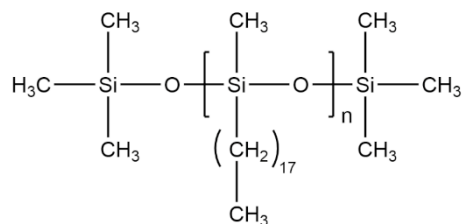
<b>MATERIAL:</b>	Polymethyloctadecylsiloxane
<b>CATALOG NUMBER:</b>	798
<b>CAS NUMBER:</b>	68607-75-0
<b>DESCRIPTION:</b>	Methyloctadecylsiloxane homopolymer
<b>FORMULA:</b>	$(C_{19}H_{40}SiO)_m(C_3H_9Si)(C_3H_9SiO)$

**TYPICAL PROPERTIES:**

Appearance:	Waxy solid
Approx Mw:	11,000
Density:	0.886
Refractive index:	$n_D^{20}$ 1.443
Pour point:	50°C
Flash point:	482°F
Solubility:	Chloroform, THF, toluene; insoluble in water

**GENERAL INFORMATION:**

Replacement of a methyl group with longer chain aliphatic moieties produces silicones with properties that more closely resemble hydrocarbons. When compared to polydimethylsiloxanes, methylalkylsiloxanes have greatly improved lubrication characteristics and greater compatibility with organic materials. Methylalkylsiloxanes reduce surface tension of many non-aqueous solvents allowing them to act as wetting and leveling agents in coating and ink formulation. Polymethyloctadecylsiloxane is compatible with paraffin wax and has been used as a component in thread and fiber lubricant formulations and as a process aid in melt spinning.

**STRUCTURE:**

Technical information and data regarding the composition, properties or use of the products described herein is believed reliable. However, no representation or warranty is made with respect thereto except as made by Sp<sup>2</sup> in writing at time of sale. Sp<sup>2</sup> cannot assume responsibility for any patent liability which may arise from the use of any product in a process, manner or formula not designed by Sp<sup>2</sup>.