



Technical Data Sheet

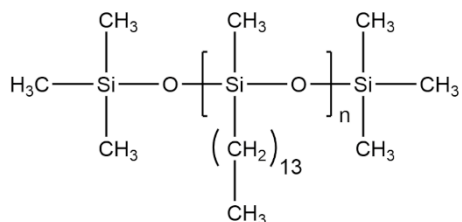
MATERIAL:	Polymethyltetradecylsiloxane
CATALOG NUMBER:	799
CAS NUMBER:	76684-67-8
DESCRIPTION:	Methyltetradecylsiloxane homopolymer
FORMULA:	$(C_{15}H_{32}SiO)_m(C_3H_9Si)(C_3H_9SiO)$

TYPICAL PROPERTIES:

Appearance:	Liquid
Approx Mw:	9,400
Viscosity:	2,000 cs
Density:	0.89
Refractive index:	n_D^{20} 1.455
Flash point:	> 230°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.

STRUCTURE:

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