

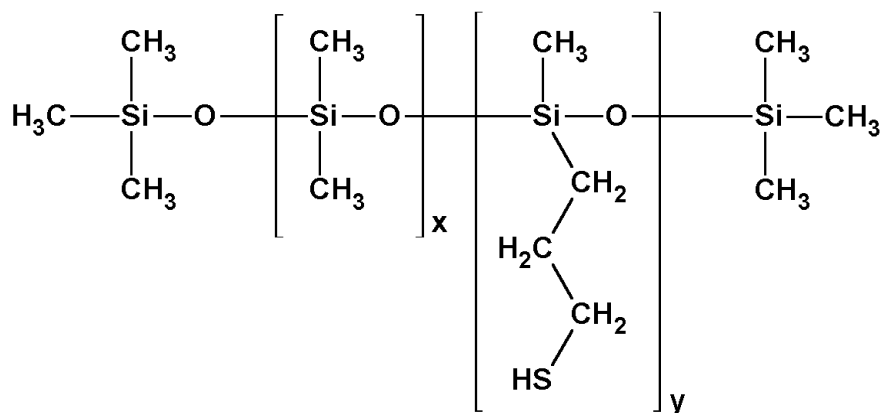


Product Information

GP-800 MERCAPTO FUNCTIONAL SILICONE FLUID

Genesee Polymers' *GP-800 MERCAPTO FUNCTIONAL SILICONE FLUID* is a dimethyl silicone copolymer fluid, containing mercaptopropyl side chains in addition to the conventional methyl group substituents.

The structure of *GP-800* is as follows where $x = 108$ (Approx.) and $y = 5.4$ (Approx.):



INNOVATIVE POLYMER TECHNOLOGY

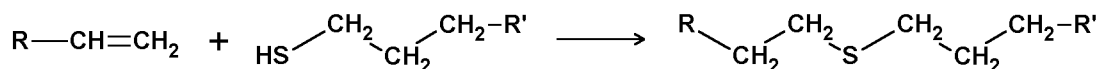
TYPICAL PROPERTIES	
Appearance (25° C)	Clear, Colorless to Light Straw Liquid
Specific Gravity	0.98
Flash Point (P.M.C.C.)	>450° F
Refractive Index	1.413
Weight/Gallon	8.0 lbs.
Molecular Weight	9,000 (Calculated)
% Active	100%
% Solvents	None
% SH	2.0%
Solubility	Aliphatic and Aromatic Solvents, Chlorinated Solvents
Viscosity, 77° F	200 cSt

APPLICATIONS
Plastic and Rubber Release Agent
Internal Lubricant and Release Agent for Sulfur and Peroxide Cure Rubber
Co-reactant in Vinyl Polymerizations
Corrosion Inhibitor Coatings
Synthesis of Organic - Silicone Copolymers
Ingredient in UV and EB Cure Inks and Coatings
Heat Stabilizer Additive for use in Dimethyl MERCAPTO FUNCTIONAL SILICONE FLUIDS

SPECIAL FEATURES
Reactive Mercapto Functionality
High Affinity for Metal Surfaces
Corrosion Inhibiting Properties
Better Release Agent than Conventional MERCAPTO FUNCTIONAL SILICONE FLUIDS in many Applications
Greater High Temperature and Oxidative Stability than Conventional Silicones

Reactions of Mercapto Silicone

The most useful reaction of the mercapto functionality of *GP-800* involves addition to double bond compounds:



This reaction has been applied to the addition of a variety of olefins, including styrene, 1-alkenes, acrylic and methacrylic acids, along with unsaturated compounds. Catalysts include basic materials and peroxides.

Mercapto groups also have shown reactivity with isocyanates, epoxies and in sulfur cure or peroxide cure rubber elastomers.

PROCESSING AND SAFETY GUIDELINES

GP-800 MERCAPTO FUNCTIONAL SILICONE FLUID may be easily mixed with aliphatic or aromatic hydrocarbon solvents. The fluid is also fully compatible with dimethyl silicone fluids.

GP-800 should be handled with all of the precautions required in handling any industrial chemical product. Consult Safety Data Sheet for additional details.

PACKAGING/HANDLING/STORAGE

GP-800 MERCAPTO FUNCTIONAL SILICONE FLUID is supplied in 5-gallon (40 lbs.) pails, 55-gallon (440 lbs.) drums and 330-gallon (2640 lbs.) totes. No special storage requirements are necessary.



www.gpcsilicones.com

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