

## PROSILANE™ SC-9095

HEXAMETHYLCYCLOTRISILOXANE (D3)

### PRODUCT DESCRIPTION

SC-9095, Hexamethylcyclotrisiloxane (commonly referred to as D3) is a volatile, cyclic siloxane consisting of a ring structure with alternating silicon and oxygen atoms, with each silicon atom bearing two methyl groups. It is a key intermediate in silicone chemistry, widely used in the synthesis of silicone polymers and elastomers.

### TYPICAL PRODUCT DATA\*

Property	Unit	Typical Value
CAS#	-	541-05-9
Molecular Weight	g/mol	222.46
Formula		C <sub>6</sub> H <sub>18</sub> O <sub>3</sub> Si <sub>3</sub>
Appearance	-	White crystalline powder
Boiling Point	°C	134
Flash Point	°C	35
Refractive Index	-	1.427
Density	g/cm <sup>3</sup>	1.02
Purity	%	≥98%

\* These values are not intended to be used as specifications but as suggested characteristics

### PACKAGING

The size of the available packages can be checked with Sales Department. SC-9095 is typically supplied in 170kg steel drums.

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEET AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION.

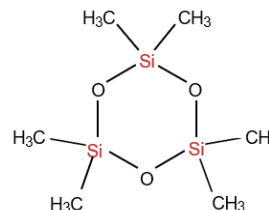
**LIMITATIONS:** Not intended for human injection. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

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## TECHNICAL DATA SHEET



### TYPICAL FEATURES AND APPLICATIONS

SC-9095 is the simplest member of a series of cyclic oligodimethylsiloxanes. It is one of the main raw materials for silicone products and is widely used in aviation, military industry, medicine and petrochemicals etc.

SC-9095 may be used as synthetic equivalents for the reactive intermediate dimethylsilanone. It may also be used as an effective trapping reagent for a variety of short-lived intermediates, including silanones and silylenes.

SC-9095 (D3) has many unique characteristics than SC-9100 (D4). The reaction of SC9095 is more active, can be easily and quickly polymerized under lower temperature and simple catalysts.

### INFORMATION FOR USE

SC9095 may be used to synthesize many kinds of organic silicone products, which have better stability, better insulation properties and better water resistance.

SC9095 may be used to synthesize silicon rubber, which may have better elasticity, better abrasive resistance, and better corrosive resistance. It may also be used to synthesize silicone oil, which may have lower freezing point and less surface tension, it is slightly affected by temperature.

### SHELF LIFE AND STORAGE

In the unopened original container SC-9095 has a shelf life of one year in a dry and cool place.