

SILSOURCE™ SDF-2

DODECAMETHYLPENTASILOXANE 2.0 cSt

PRODUCT DESCRIPTION

Dodecamethylpentasiloxane, is a clear, colorless liquid organosilicon compound. It is a volatile, low viscosity silicone fluid with several key features. It's characterized by its good spreading and unique volatility, making it a popular choice as a base fluid or volatile carrier in personal care products. It's also known for its good solubility in many solvents, a non-greasy feel, and its ability to leave no residue or buildup.

TYPICAL PRODUCT DATA*

Property	Unit	Typical Value
CAS#	-	63148-62-9
Molecular Weight	g/mol	384.84
Formula	-	C ₁₂ H ₃₆ O ₄ Si ₅
Appearance	-	Colorless clear liquid
Purity	%	>98%
Viscosity	cSt	2
Density	g/cm ³	0.875
Refractive Index	-	1.39

* 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. Silicone Fluid 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.

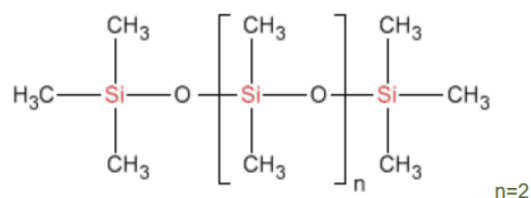
LIMITATIONS: Not intended for human injection. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Limited Warranty: Silsource Inc. warrants to Buyer that for a period of 12 months from the date of manufacture of the products, such products will materially conform to Silsource Inc.'s specifications in effect as of the date of manufacture. This warranty does not apply where the products have (a) been subjected to abuse, misuse, neglect, negligence, accident, improper testing, improper installation, improper storage, improper handling, abnormal physical stress, abnormal environmental conditions, or use contrary to any instructions issued by Silsource Inc.; (b) been reconstructed, repaired, or altered by persons other than Silsource Inc. or its authorized representatives; or (c) been used with any third-party product or hardware that has not been previously approved in writing by Silsource Inc. Buyer's exclusive remedy for breach of the limited warranty shall be a refund of the purchase price or replacement of the product, at Silsource Inc.'s sole discretion.

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TECHNICAL DATA SHEET



TYPICAL FEATURES AND APPLICATIONS

SDF-2 is used in various applications, including as a reactant or solvent in organic synthesis, and as a precursor for synthesizing other useful compounds like polydimethylsiloxanes (PDMS). It is widely used in personal care and cosmetics application. It also acts as a carrier solvent, emollient, and spreading agent. It is also found in some industrial applications like coatings, adhesives, and elastomers and is used as a cleaning agent, lubricant, and in various industrial coatings.

INFORMATION FOR USE

Silicone fluids are useful due to their thermal stability or resistance to change with changes in temperature. The fluids are completely soluble in all viscosities of dimethyl polysiloxane fluids and are heat stable and resistant to oxidation. They are inert, noncorrosive, nontoxic, clear and colorless. It widely used in various industrial and consumer applications requiring a balance of spreadability and viscosity.

SHELF LIFE AND STORAGE

The shelf life, when the container is stored unopened and under proper conditions (ambient temperatures or below 50°), is expected to be three years from the date of manufacture.