

Decamethylcyclopentasiloxane (D₅)

Product Name:Decamethylcyclopentasiloxane

Molecular Formula:C₁₀H₃₀O₅Si₅

Molecular Weight:370.77

CAS No.:541-02-6

Product Standard:T/FSI 010-2017

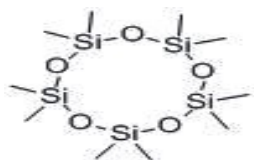
Physical and Chemical Properties:Boiling Point: 90°C 10mm Hg

Flash Point: 73°C

Relative Density (water=1): 0.958

Appearance: Colorless transparent liquid without visible impurity

Structural Formula:



Technological Index:

Item	Index
Chroma/ Platinum-cobalt scale/ Hazen unit ≤	10
Viscosity (25°C) /cst	3.8~4.2
Non-volatile matter /% ≤	0.10
Content of Octamethylcyclotetrasiloxane/% ≤	0.2
Content of Decamethylcyclopentasiloxane/% ≥	98.5
Content of other methylcyclosiloxane/% ≤	1.5

Note: The content of Octamethylcyclotetrasiloxane can be adjusted according to the customer demand.

Properties and Uses

It is widely used in cosmetics and body care products, Such as skin care, sunscreen, makeup, hair conditioning products, good compatibility with most of the alcohol and other cosmetic solvents. Be directly used as the carrier, the main raw material, also can be used as an additive; and be used in aqueous systems by the method of emulsification.

Package, Storage and Handling

Steel drum, net weight 190kg/drum, or International Bulk Container, net weight 950kg/IBC or ISO TANK. Store in a cool, dry, well-ventilated area and keep away from oxidant, acid and alkali. The storage area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment. Handling according to hazardous substances. Be careful when loading and unloading to avoid damages of the package.

Chemical Stability: Stable in closed containers under specified storage and handling conditions.

Conditions to Avoid: Incompatible materials, any sources of ignition or heat, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents, acids, bases.

Hazardous Decomposition Products: In case of a fire, oxides of carbon, hydrocarbons, silicon oxide, fumes, and smoke may be generated by thermal decomposition or combustion.

Hazardous Polymerization: May occur.