

## Octamethyl cyclotetrasiloxane (D<sub>4</sub>)

**Product Name:** Octamethylcyclotetrasiloxane (D<sub>4</sub>)

**Molecular Formula:** (CH<sub>3</sub>)<sub>8</sub>Si<sub>4</sub>O<sub>4</sub>

**CAS No.:** 556-67-2

**Product Standard:** GB/T 20435-2006

**Physical and Chemical Properties:** Freezing Point: 17~18°C

Boiling Point: 175-176°C

Flash Point: 60°C

Relative Density (water=1): 0.956

**Appearance:** Colorless transparent oily liquid

### Technological Index:

Item	Index
Chroma/Platinum-cobalt scale/Hazen unit ≤	10
Refractive index n <sub>D</sub> <sup>20</sup>	1.3960~1.3970
Content of Octamethyl cyclotetrasiloxane/% ≥	99.0

### Properties and Uses

It is colorless, inflammable, and can not dissolve in water, but dissolve in organic solvents such as benzene, etc. It can be used to synthesize organic silicon polymer by acid or alkali catalysis to manufacture silicone oil, silicone rubber, etc. It can also be used directly as treating agent for rubber stuffing and the raw material for cosmetic.

### Package, Storage and Handling

Steel drum/Plastic drum, net weight 190kg/drum or International Bulk Container, net weight 950kg/IBC, or ISOTANK. 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.