

# CVC 5 - Silicone Diffusion Pump Fluid

**Pentaphenyltrimethyl trisiloxane rich fluid for producing ultra high vacuums in the range  $10^{-9}$  -  $10^{-11}$  Torr. Exhibits excellent chemical, oxidation, thermal, hydrolysis and radiation resistance. Extremely low back streaming properties**

## Features:

- Good resistance to high temperature breakdown
- Ultra high vacuum performance
- Extremely low back streaming properties
- Rapid pump down
- Safer to use than hydrocarbon diffusion pump fluids

## Pack sizes:

500cc, 1kg, 5kg, 20kg

Further technical information is available upon request.

## Typical characteristics:

|                                           |                        |
|-------------------------------------------|------------------------|
| Specific Gravity $\text{gcm}^{-3}$ @ 25°C | 1.09                   |
| Viscosity cSt @ 25°C                      | 175 typical            |
| Flash Point Open Cup °C                   | >240                   |
| Boiling Point (under vacuum) °C           | 240 typical            |
| Ultimate Pressure Torr                    | $10^{-9}$ - $10^{-11}$ |

## Applications:

Intended for use where ultra high vacuum conditions are required.

- UHV characteristics particularly useful for thin film, surface technology, thermonuclear and plasma physics applications as well as electron microscopes
- Extreme stability and high spontaneous ignition temperature make it ideal for use in space-simulation chambers
- Low vapour pressure and low back streaming rate make cold and refrigeration traps unnecessary for pressures in the  $10^{-8}$  Torr range.



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