

Cyclo-2244 (D4) Cyclomethicone Fluid

Octamethylcyclotetrasiloxane D4 Silicone INCI Name: Cyclotetrasiloxane CAS No. 556-67-2



Cyclo-2244 (d4) Cyclomethicone is widely used as a base fluid for body sprays and room sprays due to its 100% evaporation rate.

Cyclo-2244 (D4) Cyclomethicone is a polydimethyl-cyclosiloxane that is composed mainly of octamethylcyclotetrasiloxane (CAS# 556-67-2). The product is clear, tasteless, essentially odorless, non-greasy and non-stinging.

Due to their varying rates of evaporation, low surface tensions (high spreadability), and non-greasy feel, Cyclomethicones are used as base fluids, carrying agents and wetting agents in a wide range of personal care products. Cosmetic applications include: room sprays, body sprays, antiperspirants, skin creams, skin lotions, suntan lotions, bath oils, hair care products etc.

Cyclomethicone Fluids are California VOC Exempt and will not contribute to ozone-depletion and global warming. They are being used as replacements for Non-VOC petroleum-based solvents. Cyclo-244 and Cyclo-245 have comparable evaporation rates to naphtha solvents, odorless mineral spirits (OMS) as well as some of the isoparaffinic solvents. They are compatible with most substrates, including metals and plastics.

Note: Cyclo-2244 has a freeze point of 17°C / 62°F. For applications below this temperature, Cyclo-2245 (d5) is recommended due to its significantly lower pour point.

Properties:

- Clear, colorless, odorless fluid
- Volatile carrier (100% evaporation at room temperature)...leaves no residue or buildup
- Cosmetic grade...excellent for base fluids in cosmetic formulations such as room sprays and body sprays.
- Compatible with a wide range of cosmetic ingredients
- Low heat of vaporization...non-stinging fluid.
- Will not cool skin when it evaporates.
- Excellent lubricity before evaporation
- Low surface tension fluids (high spreadability)
- California (CARB) VOC Exempt...excellent replacement for petroleum based solvents that are not VOC Compliant
- Miscible with virtually all polydimethylsiloxane fluids and most petroleum based fluids
- Soluble in most anhydrous alcohols, waxes, oils (except castor), hydrocarbon oils, esters and silicone fluid.
- Insoluble in water

VOC Status (CARB VOC) Status

Cyclo-2244 (d4) Cyclomethicone Fluid is California (CARB) VOC Exempt. It is finding wide use as a replacement for petroleum based solvents that do not meet VOC compliance.

- VOC Exempt Solvent for low solvency applications
- VOC Exempt Dry Cleaning Solvent
- Additive to bring non-VOC formulations into compliance.

Caution

Cyclo-2244 (d4) Cyclomethicone is a volatile fluid with a low flash point and appreciable vapor pressure at ambient temperature. Do not expose to heated surfaces or ignition sources

Product Data

Chemical Name	Octamethylcyclotetrasiloxane
CAS No.	556-67-2
Appearance	Clear, odorless fluid
Specific gravity @25°C	0.954
Viscosity at 25 at 25°C	2.5cSt
Heat of Vaporization @ 65°C	40
Surface tension	17.8
Flash point-closed cup	54°C
Freeze point	17°C
Boiling point @ 760mmHg	175°C
% Volatile	100%
Cyclotetrasiloxane (D4)	100%

CAS Information

Octamethylcyclotetrasiloxane 556-67-2.....100% by weight

Packaging

1- gallon pail.....3.5kg
5-gallon pail.....17.5kg
55-gallon drum.....190 kg

FOB Phila, PA USA

For More Information, Contact: Silico Organosilicon Co., Inc.

Daiyue Industrial Area, Taian,
Shandong, China
Tel: 86-0538-5076188
Fax: 86-0538-5076188
Email: info@silicorex.com
Web: www.silicorex.com