

# CasEmol 14

(INCI: Tetradecane)



Ideal alternative to cyclotetrasiloxane (D4)

Clear, colourless and low odour

Independent integrated supply

## Product Description

**CasEmol** paraffinic emollients are a range of ultra-high purity linear alkane hydrocarbons for use in a wide range of cosmetic applications. **CasEmol** emollients offer a biobased alternative to cyclomethicone/silicones. **CasEmol** emollients offer clear, colourless and low-odour performance. They offer excellent formulation versatility across a wide pH range and exhibit good oxidative stability. The breadth of the **CasEmol** range delivers a wide scope of sensory and technical performance, from dry effect through silky and smooth to high moisture retention cushiony feel.

**CasEmol 14** is designed for high-performance cosmetic and personal care applications. With exceptional purity and stability, **CasEmol 14** enhances product textures, boosts skin-conditioning effects and delivers a luxurious sensory experience. **CasEmol 14** is an ideal alternative to cyclotetrasiloxane (D4).

**It is the responsibility of the end-user to review the chemical control regulations for each country.**

## Applications

Applications:	Light creams, hair serums, foundations/BB creams
Features:	Soft glide, lightweight sensorial
Use Level:	5-12% typical

## Features and Benefits

- Volatile and fast-drying – leaves no residue, mimics the feel of cyclomethicone.
- Non-comedogenic – great for oily/acne-prone skin types.
- Silicone alternative – popular in “clean” formulations to replace volatile silicones.
- Highest purity for consistent, high-performing results.
- Oxidatively stable in extreme pH formulas.
- Readily biodegradable.
- Independent integrated supply chain – giving true security of supply.
- UK REACH registration and regulatory support.
- Trusted partner – celebrating 100 years of chemical manufacturing in 2026.
- UK and US production centres – global network of sales offices – direct logistics.



Committed to Responsible Care

# CasEmol 14

## Physical and Chemical Properties

Chemical Name, Synonyms	n-Tetradecane, C <sub>14</sub> H <sub>30</sub>
CAS Number	629-59-4
Molecular Weight	198.38 g/mol
Boiling Point	253°C (487°F)
Melting Point	6°C (43°F)
Flash Point	113 °C (235 °F)
Viscosity	2.1 mm <sup>2</sup> /s @40°C (104°F)
Density	0.762 g/mL at 20 °C
Odour	Slightly paraffinic
Colour	Colourless
Solubility	Soluble in most organic oils and solvents, insoluble in water

## Mode of Action

**Lightweight Emollient** – Provides subtle moisturisation with effortless spread and a silky, non-greasy feel.

**Texture Enhancer** – Delivers smooth glide and a soft, elegant finish on skin or hair.

**Fast-Spreading Agent** – Ensures even distribution of actives, pigments, or oils for consistent results.

**Silicone Substitute** – Offers a lightweight, volatile-silicone-like feel without greasiness.

**Stability Booster** – Supports sensory consistency and helps maintain emulsion performance in creams and BB products.

## Guidelines for Use

**Light Creams** – Use at 5–15% to give a silky, lightweight feel, quick absorption, and non-greasy finish.

**Hair Serums** – Add at 3–10% to enhance spreadability, reduce tackiness, and impart smooth, glossy hair feel.

**Foundations/BB Creams** – Include at 3–8% for a dry, silicone-like glide, even application, and fast-set finish.

## Packaging

Packaging specifications available on request.

## Handling

Consult relevant Safety Data Sheet.

## Shelf Life

12 Months.

## Inventory Status

Australia (AICS)	Canada (DSL/NDL)	China (IECSC)	Indonesia	Israel	Japan (ENCS)	Korea (MoE/ECL/AREC)	Malaysia (EHSNR)	Mexico (INSQ)
✓	✓	✓	✓	✓	✗	✗	✓	✓

New Zealand	Philippines (PICCS)	Taiwan (TCSI)	Thailand (TDCA)	Vietnam (VNECI)	UK (REACH)	EU (REACH)	US (TSCA/FDA)
✗	✓	✓	✗	✓	Grandfathered	Registered	Active

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