

# CasEmol 22

## (INCI: Docosane)



Alternative to fluorinated/long wear silicones, mineral oils



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 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 a high moisture retention cushiony feel.

**CasEmol 22** is a high-molecular-weight, long-chain alkane emollient that delivers a smooth, waxy layer to the skin, providing long-lasting softness and barrier reinforcement. Its non-volatile, stable structure makes it ideal for formulations that require a richer feel and extended moisturisation. Suitable for use in balms, barrier creams, and occlusive skincare, **CasEmol 22** adds body and richness to formulations while maintaining a mild, non-irritating profile. **CasEmol 22** is an ideal alternative to fluorinated/long wear silicones, and mineral oils.

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

### Applications

Applications:	Nourishing body masks, finishing oils and long-wear foundations.
Features:	Exceptional glide, extended playtime, silky finish
Use Level:	5-15% typical

### Features and Benefits

- Film-forming agent – creates a protective barrier to prevent trans-epidermal water loss (TEWL).
- Structural integrity in solid formats – adds hardness and glide to lipsticks and balms.
- Improved water resistance – boosts performance in sunscreens and water-repellent products.
- Highest purity for consistent, high-performing results.
- Oxidatively stable in extreme pH formulas.
- Inherently biodegradable.
- Independent integrated supply chain – giving true security of supply.
- 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

  
**Thomas Swan**  
Consumer Actives

# CasEmol 22

## Physical and Chemical Properties

Chemical Name, Synonyms	n-Docosane, C <sub>22</sub> H <sub>46</sub>
CAS Number	629-97-0
Molecular Weight	310.6 g/mol
Boiling Point	370 °C (698 °F)
Melting Point	44 °C (111.2 °F)
Flash Point	146 °C (closed cup) (295 °F)
Viscosity	2.12 cP at 25 °C (77 °F)
Density	0.78 g/cm <sup>3</sup> at 20 °C (68 °F)
Odour	Slightly waxy
Colour	Colourless
Solubility	Insoluble in water, soluble in oils and hydrocarbons

## Mode of Action

**Velvety Emollient** – Provides deep nourishment and a smooth, cushiony finish, ideal for long-lasting care.

**Texture Enhancer** – Adds richness, body, and a luxurious glide to formulations without greasiness.

**Film Former** – Creates a lightweight, protective layer that enhances durability and moisture retention.

**Silicone Alternative** – Mimics the feel and performance of heavier silicones in long-wear or high-luxury formulas.

**Stability Optimiser** – Improves phase uniformity and sensory consistency in rich or oil-based systems.

## Guidelines for Use

**Nourishing Body Masks** – Use at 5–15% for enhanced hydration, smoothness, and skin comfort.

**Finishing Oils** – Add at 3–8% to deliver silky glide and a non-greasy, elegant after-feel.

**Long-Wear Foundations** – Include at 3–8% to improve longevity, even coverage, and a soft, velvety finish.

## Packaging

Packaging specifications available on request.

## Handling

Consult relevant Safety Data Sheet.

## Shelf Life

12 Months.

## Inventory Status

Australia (AICS)	Canada (DSL/NDSL)	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)
✓	✓	✓	✗	✓	Not Registered	Registered	Active

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