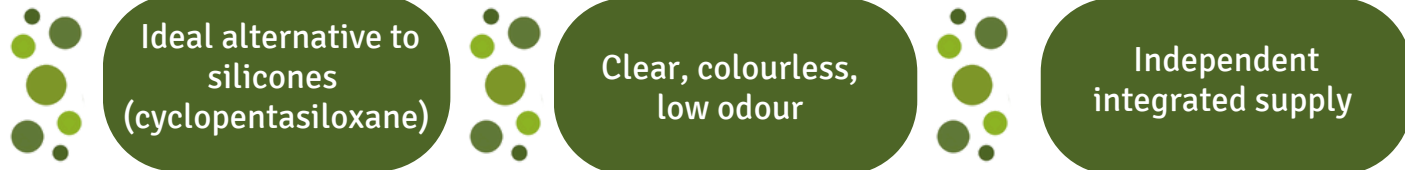


# CasEmol 12

(INCI: Dodecane)



## 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 high moisture retention cushiony feel.

**CasEmol 12** provides an ultra-light texture and silky feel. It creates a smooth, dry-touch finish without a greasy residue, making it ideal for powders, nail products, dry-touch deodorants and daily use skincare products. **CasEmol 12** is a great biodegradable alternate to silicones and poly(organo)siloxanes, particularly cyclomethicone and cyclopentasiloxane (D5).

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

## Applications

Applications:	Powders, nail products, dry-touch deodorants
Features:	Ultra lightweight, quick-drying, mattifying effect
Use Level:	5-15% typical

## Features and Benefits

- Fast-drying, lightweight feel, evaporates more quickly than longer alkanes – leaving behind a dry, non-oily finish.
- Excellent solvent for oil-soluble actives – short carbon chain allows it to dissolve lipophilic ingredients.
- Improves product spreadability without silicone by mimicking the slip and glide of 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.
- 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 12

## Physical and Chemical Properties

Chemical Name, Synonyms	n-Dodecane, C <sub>12</sub> H <sub>26</sub>
CAS Number	112-40-3
Molecular Weight	170.34 g/mol
Boiling Point	208-216°C (406-420°F)
Melting Point	-10°C (14°F)
Flash Point	70 °C (158°F) (closed cup) at 1 atm
Viscosity	1.34 mm <sup>2</sup> /s at 20 °C (68°F)
Density	0.0743 g/cm <sup>3</sup> at 25°C (77°F)
Odour	Slightly paraffinic
Colour	Colourless
Solubility	Soluble in most organic oils and solvents, insoluble in water

## Mode of Action

**Spreadability Enhancer** – Ensures smooth, even application with effortless glide.

**Texture Modifier** – Delivers a dry-touch, matte finish for a light, oil-controlled feel.

**Carrier** – Temporarily carries actives or pigments for uniform delivery before evaporating.

**Sensory Enhancer** – Reduces tackiness and enhances slip for a soft, silky touch.

**Silicone Alternative** – Inherently biodegradable, lightweight alternative to volatile silicones with elegant feel.

## Guidelines for Use

**Powders** – Use at 2–8% to improve slip, reduce tackiness, and give a smooth, silky finish.

**Nail Products** – Add at 3–10% to enhance spreadability, even application, and a non-greasy feel.

**Dry-Touch Deodorants** – Include at 5–12% to deliver a lightweight, quick-drying, non-sticky texture.

## 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 (NZIoC)	Philippines (PICCS)	Taiwan (TCSI)	Thailand (TDCA)	Vietnam (VNECI)	UK (REACH)	EU (REACH)	US (TSCA/FDA)	
✓	✓	✓	✓	✗	Not Registered	Registered	Active	

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