

PALMESTER 5305

Propylene Glycol Dicaprylate/Dicaprate

PALMESTER 5305 is a mixture of the propylene glycol diesters of caprylic and capric acids. It is a light and dry emollient with good skin absorption, fast spreadability and skin-smoothing properties.

PALMESTER 5305 has excellent dispersing and dissolving properties for pigments and sunscreens. It can be used as a low-viscosity oil base with excellent spreadability for massage oils and in baby care.

Propylene Glycol Dicaprylate/Dicaprate is reported to be used up to 51.8% in leave-on applications and 14.4% in rinse-off application. Among these applications, Propylene Glycol Dicaprylate/Dicaprate is used up to 38% in face powders, up to 2.5% are in baby lotion, baby oil and cream formulations and up to 0.13% in hair spray.



✓ High oxidative stability

✓ Provides a velvety skin feel and non-greasy after-feel

✓ Alternative to low molecular weight silicone oils in terms of sensorial properties¹

✓ Readily miscible with natural oils and surfactants in cleansing applications

Product Information

PALMESTER 5305	Properties
INCI Name	Propylene Glycol Dicaprylate/Dicaprate
CAS Number	68583-51-7
Appearance	Colourless liquid
Dynamic Viscosity @ 20°C (mPa.s)	11
Refractive Index @ 20°C	1.441
Country Inventory Listing	USA, Canada, Europe, Australia, Korea, Japan, China, Philippines, New Zealand, Thailand, Taiwan, Vietnam, Mexico

Please contact our sales representatives for more information.

Product Applications



Skin Care



Colour Cosmetics



Hair Care



Sun Care

Performance Benefits



- Baby oil enriched with a combination of Propylene Glycol Dicaprylate/Dicaprate and mineral oil provides improved skin hydration.²
- Propylene Glycol Dicaprylate/Dicaprate can be used as an oil phase in nano and microemulsion formulations using the phase inversion method.³

Be assured by
PALMESTER



KLK OLEO in the
Global Arena



References

1. The Online Journal of Science and Technology - October 2020 Volume 10, Issue 4 pg 152.
2. Effect of emollient type on physicochemical and functional properties of baby oils; Polish Journal of Commodity Science; Vol 2 (51), 2017
3. Microemulsions Based on Propylene Glycol Diesters of Caprylic and Capric Acids; Polish Journal of Chemical Technology, March 2013; Vol. 15, No. 1, 2013; Małgorzata A. Jaworska, Elżbieta S. Sikora, Jan Ogonowski
4. Cosmetic Ingredient Review; 2014, Safety Assessment of Propylene Glycol Esters as Used in Cosmetics

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