



KLK OLEO

PALMERA Isostearic Acid
100% Bio-based • Readily biodegradable

Raw material for more than 30 cosmetic ingredients

About Isostearic Acid

Isostearic Acid is a unique fatty acid. It combines the best properties of stearic acid with the best properties of oleic acid. It is a fully saturated, branched fatty acid, which provides excellent heat and odor stability. Like oleic acid, it is clear and liquid at room temperature. The cloud point of our Isostearic Acid is below 8 °C.

Our Isostearic Acid is 100% derived from vegetable sources and has been recognised as readily biodegradable. The reason for this lies in its branched molecular structure: it contains minimum 83% of C16-C22 saturated branched fatty acids.

After esterification with either a natural or a synthetic alcohol, the Ester is often liquid even below 0 °C. Due to its oxidative stability, Isostearic Acid is a preferred replacement for oleic acid. Isostearic Acid derivatives will contribute to a longer shelf life.

Our Ester portfolio derived from our Isostearic Acid comprises of the following products:

- Isopropyl Isostearate
- Glycerol Isostearate
- Pentaerythrityl Tetraistearate
- Sorbitan Isostearate
- Triisostearin
- PEG-40 Sorbitan Perisostearate
- Trimethylolpropane Triisostearate

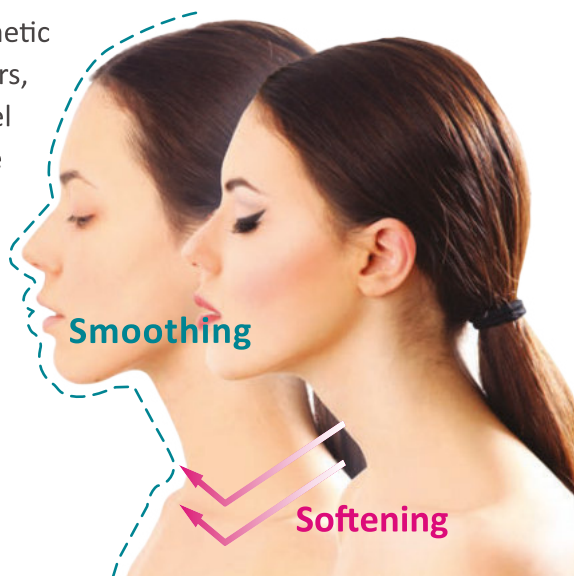
More than 30 different Isostearic derivatives are already in use within the Cosmetic Industry.

Product Applications

Isostearic derivatives are widely used in cosmetic applications such as skin creams, hair conditioners, moisturising creams, colour cosmetics, shower gel formulations, fine soaps, etc. Once applied to the skin, the Esters of Isostearic Acid leave a soft feel due to its branched structure.

Isostearic Acid can be used as:

- Dispersant
- Emollient
- (Co)-emulsifier
- Stabilizer



Product Range

Property	PALMERA IS-10	PALMERA IS-20	PALMERA IS-30
Acid Value, mg KOH/g	190-197	190-197	190-197
Iodine Value, g I ₂ /100g	max. 2.0	max. 2.0	max. 2.0
Cloud Point, °C	max. 8	max. 8	max. 5
Colour APHA, Hazen	max. 100	max. 35	max. 35
Y-Lacton, %	max. 0.5	max. 0.5	max. 0.5

About KLK OLEO

As a global oleochemical producer, KLK OLEO is committed to supplying sustainable ingredients. Vertically integrated and a member of RSPO, we ensure a highly transparent supply chain. Headquartered in Kuala Lumpur, KLK OLEO established various sites in Europe. The close proximity to customers and our technical aptitude allows us to meet the needs of the market. By thinking globally and acting locally, we are the leading oleochemical producer in Europe. We offer an extensive product portfolio, essential for diverse applications in distinct industries.

Based in Emmerich am Rhein and with a further production site in Düsseldorf, the KLK Emmerich GmbH product portfolio ranges from Speciality Chemicals such as Isostearic Acids, Sorbitan Esters, MCT Oils, Dimer Acids, and Triacetin next to a variety of Fatty Acids and Glycerine.

Several KLK OLEO products are ISO22000 certified, GMP+, GMO free, Halal, Kosher, Pharma Grade and Ecocert certified. All our production sites are RSPO certified to provide Mass Balance and Segregated products.






Europe Sales Office

KLK Emmerich GmbH

Steintor 9,

46446 Emmerich am Rhein, Germany

T : +49 (0) 2822 72 0

F : +49 (0) 2822 72 276

E : info.europe@klkoleo.com

KLK OLEO Corporate Office

Level 8, Menara KLK, No. 1, Jalan PJU 7/6,

Mutiara Damansara, 47810 Petaling Jaya, Selangor, Malaysia

T : + 603 7809 8833

F : + 603 7727 1301/07

E : enquiry@klkoleo.com

www.klkoleo.com

Copyright©2018 KLK OLEO. All rights reserved. No part of this publication may be reproduced in any form without prior permission from KLK OLEO.

Disclaimer

PALMERA is a registered trademark of KLK OLEO. All information provided herein is based on our current knowledge and is only meant to indicate general notes of our products and their possible uses. Safety information regarding these products is contained in the Material Safety Data Sheet. Users of these products are urged to study thoroughly before using this information. The manufacturer shall not be liable in any manner whatsoever for direct, indirect, incidental, consequential loss, income or profit, punitive damages and/or claims of third parties resulting from the use of, or inability to use the information.

IA-V1-03-2018

