

skincare and haircare additive
for cosmetics and toiletries

GENERAL INFORMATION

LANOLIN is a pale yellow, tenacious, unctuous substance obtained from the wool of sheep, having a faint characteristic odor.

LANOLIN is classified chemically as a wax, being a complex mixture of naturally occurring esters and polyesters of 33 high molecular weight alcohols (principally sterols) and 36 fatty acids comprise an approximately 50/50 ratio.

LANOLIN is an extremely effective emollient in restoring and maintaining the all important hydration (moisture balance) of the stratum corneum and so prevents drying and chapping of the skin. Equally important, it does not alter the skin's normal transpiration.

LANOLIN has been shown to cause the water in the skin to build up to its normal level of 10-30%, by retarding without completely inhibiting trans-epidermal moisture loss.

LANOLIN has the unique property of absorbing twice its own weight of water.

LANOLIN has the physical properties of increasing adhesion to dry skin and forming protective films on the skin.

LANOLIN is self-emulsifying, producing very stable w/o emulsions with water and is often used in this hydrous form.

INGREDIENTS

INCI name:

Lanolin

CTFA name:

Lanolin

APPLICATIONS

- Baby Preparations
- Hair Products and Hair Spray Plasticizer
- Lip Products
- Protective Creams and Lotions
- Paste Shampoos
- Shave Cream
- Sunscreens
- Burn Aids
- Hand Soap
- Decorative Cosmetics
- Pet Products

KEY PROPERTIES

Lanolin USP Cosmetic skin and haircare additive

Typical composition of Lanolin

- | | |
|--|-------|
| • Esters of sterols and triterpene alcohols: | 35.4% |
| • Esters of aliphatic alcohols: | 23.7% |
| • Monohydroxyesters of sterols and of triterpene and aliphatic alcohols: | 20.0% |
| • Di- and polyhydroxyesters and free diols: | 7.9% |
| • Free aliphatic alcohols: | 5.6% |
| • Free sterols: | 4.1% |
| • Free hydrocarbons: | 0.6% |
| • Free fatty acids: | 0.5% |
| • Unknowns: | 2.2% |

Typical Saponification Products of Lanolin

- | | |
|--------------------------|-------|
| • Fatty Acid: Aliphatic | 31.1% |
| Alpha-hydroxy | 13.8% |
| Omega-hydroxy | 2.6% |
| Unsaturated | 2.4% |
| Others | 1.1% |
| • Alcohols: Cholesterols | 19.6% |
| Lanosterols | 12.6% |
| Aliphatic | 8.0% |
| 1,2 diols | 4.1% |
| Others | 2.7% |
| • Unspecified: | 2.0% |

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CHEMICAL AND PHYSICAL DATA

Color (Gardner)	10 max.
Fatty Acids (As Oleic)	0.56% max.
pH (10% Aq)	4-7
Iodine Value (Hanus)	18 – 36
Melting Range	38 – 44°C
Water	0.25% max.
Residue on Ignition	0.1% max.
Foreign Substances (USP):	
Individual 10 ppm:	Passes
Total 40 ppm max.	Passes

INCORPORATION

LANOLIN can be added at any convenient suitable stage during the manufacturing cycle with mixing.

Solubility	@25°C	@75°C
Isopropyl Myristate	Soluble (Clear Solution)	Soluble (Clear Solution)
Mineral Oil	Slightly Soluble	Soluble (Clear Solution)
Castor Oil	Insoluble	Soluble (Clear Solution)
Propylene Glycol Mono Laureate	Slightly Soluble	Soluble (Clear Solution)
Glycerine	Insoluble	Insoluble
Propylene Glycol	Insoluble	Insoluble
Acetone	Insoluble	Soluble (Clear Solution)
Ethyl Acetate	Soluble (Clear Solution)	Soluble (Clear Solution)
Ethyl Alcohol	Insoluble	Soluble (Clear Solution)
Water	Insoluble	Insoluble

LEVELS OF USE

The level of use of the LANOLIN will depend on the formulation. Typical addition levels are 1-100%.

COMPATIBILITY

LANOLIN is compatible with most fats and waxes used in cosmetics and pharmaceutical preparations.

TOXICITY

Care is taken to ensure that the ingredients used in the LANOLIN additive are not known to be injurious to health in any way and have been toxicologically tested to ensure their safety. However, the LANOLIN additives have not been subjected to testing involving the use of animals within the last 10 years.

STORAGE TEMPERATURES

Keep container sealed and store at room temperature.

SHELF LIFE

LANOLIN has a shelf life of 2 (two) years from date of manufacture.

SAFETY

Before using this product, please consult our MSDS.

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