

## Modulan™ Lanolin Derivative

**Chemical Name:** Acetylated Lanolin.

**Product Description:** Modulan™ lanolin derivative is acetylated lanolin. It is 100% active, and is supplied as a yellow to amber, soft solid.

**Typical Properties:** Physical properties are listed below and indicate typical values and properties; they are not intended to be used as product specifications.

Appearance at 25°C	Yellow to amber, soft
Solid	
Odor	Mild, pleasant
Acid Number, mg/g	2
Color, Gardner	8
Hydroxyl Value, mg/g	8
Iodine Value	50
Moisture, % wt.	<0.2
Saponification Value, mg/g	120
Ash, % wt.	<0.2
Melt Range, Class II, °C	40

### Features and Benefits:

- Provides hydrophobic, protective film formations on skin to reduce transepidermal water loss
- Offers greater slip and better emolliency
- Acts as an effective lipophilic spreading agent

### Suggestions for Use:

Modulan™ lanolin derivative is supplied in an easy-to-use solid form. Its film forming and spreading properties make it an excellent candidate for use as a film former to reduce transepidermal water loss.

Modulan™ lanolin derivative is an excellent emollient for a wide range of product types and applications, such as gels, creams, spray and ointment.

Some of the active pharmaceutical ingredients (API) that have been formulated with acetylated lanolin are:

- Salicylic acid
- Capsaicin
- Camphor
- Benzethonium chloride

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- Benzocaine
- Methyl salicylate
- Hydrocortisone
- Menthol

Recommended use levels range from 0.5% to 5.0%, depending on application.

### **Storage and Handling:**

Modulan™ lanolin derivative is packed in 188-kg drums or 45-kg pails. Material should be stored in closed containers and protected from extreme temperatures.

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