



Ethylhexyl salicylate

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Colorless liquid
Physical Form	Liquid
Odor	At 100.00 %. mild orchid sweet balsam
Molecular Weight (g/mol)	250.33
Density or Specific Gravity	1.014 g/mL at 25 °C (lit.)
Refractive Index	n ₂₀ /D 1.502(lit.)
Chemical Properties	
Water Solubility	74.4µg/L at 20°C
Incompatibilities	Light and heat sensitive; avoid strong oxidizing agents
Thermal Properties	
Boiling Point	189-190 °C/21 mmHg (lit.)
Flash Point	>230 °F
Melting Point	Approximately -2 °C

2. Processing Methods



Cosmetic sunscreen cream

Add Octyl Salicylate (up to 5%) to the oil phase and heat gently to ensure it dissolves fully and blends well with other oil-soluble UV filters. Blend thoroughly with other oil-phase ingredients for a stable and effective formulation.

Key Ingredients	Indicative Dosage (% w/w)
Homosalate	10%
Avobenzone	3%
Octocrylene	2.7%
Octyl Salicylate	5%
Polysilicone-15	0.99%
Potassium Cetyl Phosphate	2%
Cetearyl Alcohol	2.5%
Tocopherol (Vitamin E)	0.2%
Phenoxyethanol & Ethylhexylglycerin	1%
Dicaprylyl Carbonate	3%
Hydrogenated Coco-glycerides	1%
C12-15 Alkyl Benzoate	3%
Xanthan Gum	0.2%
Disodium EDTA	0.1%
Alpha-Arbutin	2%



Lip balm

When adding Octyl Salicylate to lip balm, dissolve it thoroughly in the oil phase to ensure uniform distribution and avoid degradation. Ensure compatibility with waxes and oils for stable texture and even distribution. Stir well during cooling to avoid separation and ensure uniformity.

Key Ingredients	Indicative Dosage (% w/w)
Petrolatum	35%
Beeswax	10%
Hydrogenated Polyisobutene	20%
Octyl Salicylate	5%
Cera Microcristallina	10%
Caprylic/Capric Triglyceride	5%
Tocopherol (Vitamin E)	0.5%
Fragrance	0.5%

Sunscreen Lotion

In sunscreen lotion formulation, add Octyl Salicylate to the oil phase and heat to ensure complete solubilization. Mix thoroughly with other oil-soluble UV filters before emulsification for consistent SPF and formulation stability.

Key Ingredients	Indicative Dosage (% w/w)
Water	50-60%
Homosalate	5-15%
Octyl methoxycinnamate	7.5%
Oxybenzone	3-6%
Octyl salicylate	5%
Emulsifiers, emollients, preservatives, fragrance	



Makeup foundation cream

In makeup foundation formulation, add Octyl Salicylate to the oil phase and heat gently to ensure full solubilization. Blend well with other emollients and UV filters before emulsification.

Key Ingredients	Indicative Dosage (% w/w)
Octyl Salicylate	5%
Octyl Methoxycinnamate	7.5%
Titanium Dioxide	3%
Zinc Oxide	3%
Carbopol 980	2%
Disodium EDTA	0.5%
Triethanolamine	2.4%
Germaben II	5%
Deionized Water	80-90%

3. Dosing by Application

Products	Authorized dosage %
Sunscreen Lotions, Creams	3-5%
Skin Care Creams, Lotions	Upto 5%
Lip stick, lip balm	2-5%
Hair Care Products - UV Protection Hair Mask, Conditioners	Upto 5%

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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