



ELACTAVIA - SCA™ (Salicylic Acid)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	White to off-white solid; powder; fine needles or granules
Physical Form	Powder
Odor	Faint phenolic
Molecular Weight (g/mol)	138.12
Density or Specific Gravity	1.44
Refractive Index	1.565
pH (if aqueous solution)	3.21(1 mM solution);2.57(10 mM solution);2.02(100 mM solution)
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pH	3.21(1 mM solution);2.57(10 mM solution);2.02(100 mM solution)
Chemical Properties	
pKa	2.98(at 25°C)
Thermal Properties	
Melting Point	158-161 °C(lit.)
Boiling Point	211 °C(lit.)
Flash Point	157 °C
Solubility with Solvents	
Water	~0.2%
Ethanol	Up to 14%
Methanol	Soluble
Propylene Glycol	Soluble
Propanediol	Soluble

2. Processing Methods



Hair Anti-Dandruff Shampoo

When adding salicylic acid to hair shampoo, dissolve it in a co-solvent for better solubility. Add it during the cool-down phase to ensure stability and scalp compatibility.

Key Ingredients	Indicative Dosage (% w/w)
Sulphur	0.75%
Salicylic acid	0.5-1.75%
Benzoic acid	1.0-2.0 %
Sodium lauryl sulphate	20%
Urea	0.75%
Citric acid	0.5%
Sodium EDTA	0.5%
Guar gum	1.5%
Tween 80	0.5%
Distilled water	65-75%

Cosmetic Ointment

When formulating with salicylic acid in cosmetic ointments, dissolve it in a suitable solvent before incorporation to ensure uniform distribution. Add the solution to the oil phase or during the cooling stage to prevent crystallization. Ensure the final pH is below 4 for optimal efficacy and stability.

Key Ingredients	Indicative Dosage (% w/w)
10-12%	
Salicylic acid	0.5%
White vaseline	62%
Stearic acid	10%
Castor oil	4%
Camphor	1%
Sodium dodecyl benzene sulfonate	0.9%
Ethylparaben	0.1%
Water	10%



Skin Cleansers

When adding Salicylic Acid to skin cleansers, dissolve it in a small amount of ethanol or propylene glycol before incorporation to ensure proper solubility. Add the solution to the water phase and maintain the final pH between 3.5 and 4.5 for optimal effectiveness. Avoid high temperatures to prevent degradation during processing.

Key Ingredients	Indicative Dosage (% w/w)
Water	85.6%
Glycerine	1%
Ethanol	10%
Polyethylene Glycol	1%
Salicylic acid	0.5%
Benzoic acid	0.1%
Sodium citrate	0.35%
Vitamin E acetate	0.1%
Fragrance, Colorants, others	

Moisturizing Cream

Add Salicylic Acid as a fine powder dispersed evenly in the aqueous phase before emulsification for uniform delivery. Ensure even dispersion and monitor for potential crystallization during cooling.

Key Ingredients	Indicative Dosage (% w/w)
Water	60-70%
Glycerine	5%
Caprylic/Capric Triglyceride	6%
Cetearyl Alcohol	3%
Glyceryl Stearate	3%
Dimethicone	2%
Salicylic Acid	1%
Niacinamide	2%
Phenoxyethanol + Ethylhexylglycerin	1%
Xanthan Gum	0.5%
Carbomer	0.3%
Fragrance, Sodium Hydroxide (10% solution)	

3. Dosing by Application



Products	Authorized dosage %
Ointments/Creams	Upto 0.5%
Hair Formulations	0.5-2%

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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