

iACTIVE CSA

INCI Name (US): Capryloyl Salicylic Acid

INCI Name (EU): Capryloyl Salicylic Acid

CAS #: 78418-01-6

**General Information/
Characteristics:**

Capryloyl Salicylic Acid is an ester form of salicylic acid which is a BHA and it works as an exfoliant. Salicylic acid is also used as to improve skin thickness and collagen production. This ester form is used as a skin conditioning agent that works by enhancing the appearance of damaged skin by removing dead cells, especially dryness as it reduces the flaking and restores the elasticity. Because of this, CSA is used in anti-aging, whitening, anti-acne and anti-wrinkle cosmetic formulations. Additionally, this analog is used as a preservative and has been categorized as an exfoliant, an anti-inflammatory and an antimicrobial.

As a keratolytic agent, it exfoliates the skin by causing the cells of the epidermis (upper layer of skin) to shed more easily, making room for new cell growth. Higher concentrations (8-12%) of topically applied CSA can effectively remove warts. Studies have documented concentrations as low as 2% to improve skin thickness, collagen production, wrinkling, roughness and hyperpigmentation over a time period of just 6 months. A study showed a significant improvement in wrinkles in 41% of the subjects who regularly used a CSA peel, and a substantial lightening of hyperpigmentation in 46% of the CSA users (compared to only 31% and 34%, respectively, for those who used glycolic peels).

Unlike alpha hydroxy acids, which are water soluble, beta hydroxy acids (and its esters) are lipid (oil) soluble. This means that they not only exfoliate the upper layer of skin, but also penetrate deep through the epidermis to exfoliate the dead skin cells and excess oil built up in the pores. For this reason, CSA acid is frequently used to treat blackheads, whiteheads and acne. Yet its keratolytic ability is not the only reason for why it is so often administered to treat blemishes and breakouts. This ingredient also functions as both an antimicrobial and anti-inflammatory agent, making it an ideal anti-acne ingredient. While many other exfoliants (i.e. AHA's) often irritate the skin, salicylic acid does just the opposite by reducing inflammation.

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Benefits / Application:	<u>Skin care benefits:</u>	
	<ul style="list-style-type: none"> • Acts as an anti-aging and anti-acne agent • Effective whitener. • Reduces irritation and inflammation to skin that has been caused by both endogenous and environmental agents. 	
	<u>Hair care benefits:</u>	
	<ul style="list-style-type: none"> • Controls dandruff, seborrheic dermatitis and psoriasis of the scalp. • Reduces irritation. • Improves the texture of hair that has been previously damaged physically or chemically. 	
	<u>Applications:</u>	
	<ul style="list-style-type: none"> • Whitener/lightener agents. • Astringents/toners. • Anti-aging, anti-acne and anti-wrinkle agents. • Acne creams, facial scrubs and facial cleansers. • Moisturizers. • Shampoos/conditioners. 	
Formulations Advices:	Usage level is 0.2-2% in skin care products and 0.5 – 3% in hair care products. Products works best at pH levels of 3-4. The heat temperature is 80 °C. It can dissolve in lipid and can't dissolve in water Because it can mildly increase sun sensitivity, the application of SPF 30+ sunscreen is highly recommended.	
Regulatory Status:	No specific regulations.	
Physical-Chemical Properties:	Appearance	Crystalline powder, odorless, bitter.
	Color:	White or almost white.
	Melting point:	112.0-117.0 °C
	Heavy metals:	≤0.002%
	Content:	≥98.0%
	<i>*These values indicate typical specification; they are not intended to be used as product specifications</i>	
Additives:	None.	
Shelf Life / Storage	3-year validity. Store at room temperature in a cool and dry place.	
Packaging:	1kg*20 aluminum foil bag or 20kg plastic bag.	

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