

# QUALITY PURIFIES.

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Energizing Chemistry

## Solbrol® SC Salicylic Acid

CAS No.: 69-72-7 – CP / EP / BP / USP

### Summary

Solbrol® SC Salicylic acid is ideal for cosmetic applications for the hair and skin. Solbrol® SC offers high-purity, pharmaceutical grade salicylic acid for use in soaps, washes, lotions, serums, creams and more.

### Salicylic Acid

Salicylic acid is versatile multifunctional ingredient with preservative properties and many benefits in skin and hair products. It is a naturally occurring beta hydroxy acid found in fruits, flowers, bark, leaves and roots of various plants.<sup>1</sup> Due to its oil solubility, salicylic acid functions as a keratolytic to remove the outermost layer of the skin. Salicylic acid also exhibits anti-bacterial and anti-inflammatory properties.<sup>2</sup> For these reasons, it is widely used in oil control, exfoliation, anti-acne, and skin soothing products. Salicylic acid has demonstrated effectiveness against seborrheic dermatitis of the skin and scalp.<sup>2</sup> Use of salicylic acid has been reported to inhibit growth of bacteria, yeast, and fungi, including some antibiotic-resistant species.<sup>3</sup>

### Purity

- Pharmaceutical Grade
- White crystals
- $\geq 99.0\%$  pure
- Phenol content  $\leq 0.02\%$

### Application Guide:

- Effective to pH 6.5
  - Most effective in acidic formulas
  - Cosmetic preservative typical concentration – up to 0.5%\*
  - Multifunctional typical concentration: 0.5 – 3.0%\*
- Solbrol® SC can be formulated into water, alcohol, or oil-based products. Solbrol® SC is compatible with salt-sensitive formulas where sodium salicylate may be incompatible.

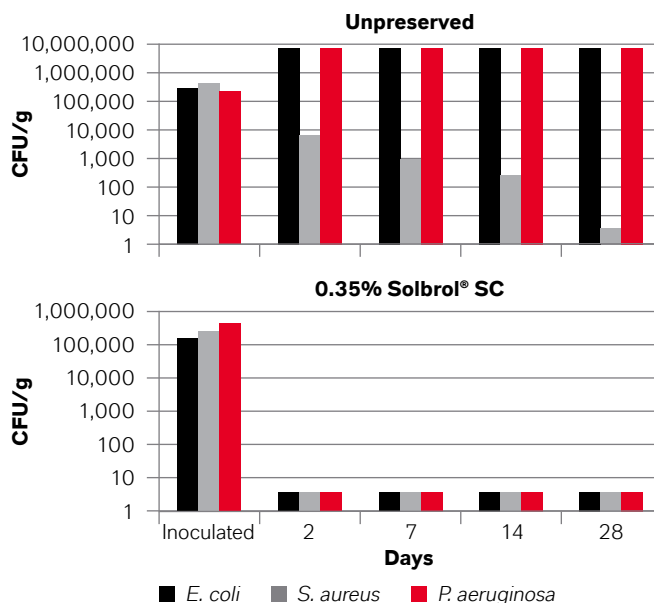
**X Solbrol®**

## Face Wash preserved with Solbrol® SC

Stage	Ingredient Name	Function	Wt%
A	Water	Carrier	Q.S.
	PEG-150 Distearate	Rheology Modifier	0.70
	Glycerin	Humectant	0.75
B	Sodium Methyl Cocoyl Taurate	Surfactant	4.90
	Sodium Lauroyl Methyl Isethionate	Surfactant	1.35
	Cocamidopropyl Betaine	Surfactant	3.60
	Baypure® CX-100	Chelant	0.15
C	<b>Solbrol® SC Salicylic Acid</b>	<b>Preservative</b>	<b>0.35</b>
	Bisabolol	Soothing Agent	0.25
	Citric Acid	pH Adjuster	5.0–5.8

## Formula Inspiration: Oil Control Shampoo with Solbrol® SC

Ingredient Name	Function	Wt%
Water	Carrier	Q.S.
Sodium Laureth-2 Sulfate	Surfactant	10.0
Cocamidopropyl Betaine	Surfactant	1.15
Alkyl Polyglucoside	Surfactant	2.5
Glyceryl Caprylate/Caprate	Foam Enhancer	0.75
Sodium Gluconate	Chelating Agent	0.10
<b>Purox® S Sodium Benzoate</b>	<b>Preservative</b>	<b>0.15</b>
<b>Solbrol® SC Salicylic Acid</b>	<b>Multifunctional</b>	<b>2.00</b>
Sodium Chloride	Viscosity Modifier	0.20
10% NaOH solution	pH Adjuster	To pH 4



### Sources:

- 1 Salicylic acid and related compounds. Kirk-Othmer Encyclopedia of Chemical Technology, 3rd ed.; Wiley: New York, 1982; Vol. 20, pp 500-501.
- 2 Madan R.K.; Levitt J. Journal of the American Academy of Dermatology 2014, 70 (4), 788–792.
- 3 Blaskovich, M.; Elliott, A.; Kavanagh, A.; Ramu, S.; Cooper, M. Scientific Reports 2019, 9(1), 1-8.

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Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that the results refer exclusively to the specimens tested. Under certain conditions, the test results established can be affected to a considerable extent by the processing conditions and manufacturing process.

**Note:** Information contained in this publication is current as of November 2024. Please contact LANXESS Deutschland GmbH to determine if this publication has been revised.

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