

# Iscaguard 9088

Paraben Free	Thiazolinone Free	Formaldehyde Free	Preservative Free	Natural
✓	✓	✓	✗	✗

INCI declaration
Benzyl alcohol, dehydroacetic acid, aqua

Iscaguard 9088 is a blend of an organic acid in benzyl alcohol. It is suitable for formulations with acidic pH, and offers protection against bacteria, yeasts, and moulds. Iscaguard 9088 is permitted for use with most Eco label certified products, and can be used for both leave-on and rinse-off products.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.5 – 1.0 %	1.14 % #
Rinse-off	0.5 – 1.0 %	1.14 % #

# Not to be used in aerosol dispensers (sprays)

In use concentrations vary according to the formulation type and other ingredients present. The correct use dosage should be determined by microbial challenge testing of the finished formulation (ISCA UK offers discounted challenge testing to our customers).

## Recommended Applications

Shampoo, Shower gel (Rinse-off)	Creams, lotions (Leave-on)	O/W emulsions	W/O emulsions	Wet wipes	Eye care	Lip Care	Oral care	Children under 3
•	•	•	•	•	•	•	•	•

Use scenarios derived from evaluation of Cosmetic Regulation guidelines and preservative performance for typical formulations.

Formulation guidelines	
pH (effective range)	3.0 – 6.5
Solubility (Water)	1.0 % (approx.)
Solubility (Glycols)	Soluble
Maximum Process Temperature	60 °C
General information	Iscaguard 9088 is compatible with most personal care ingredients. In aqueous formulations, heating to 40°C may be required in order to fully dissolve the preservative. However, prolonged exposure to high temperatures should be avoided in order to protect against discolouration. Iscaguard 9088 works effectively at pH values below 6.5, though for optimal efficacy we recommend that the pH of the finished product is less than 6. Iscaguard 9088 is not to be used in aerosol dispensers (sprays) according to the EU Cosmetic Regulation.

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
<b>Bacteria (gram-negative)</b>	
Pseudomonas aeruginosa	0.4
Escherichia coli	0.4
<b>Bacteria (gram-positive)</b>	
Staphylococcus aureus	0.4

Physical Properties (approximate)	
Appearance	Light yellow liquid
Odour	Faint
Density	1.06 gcm <sup>-3</sup>


Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
<b>Yeasts</b>	
Candida albicans	0.15
<b>Moulds</b>	
Aspergillus niger	0.15

Physical Properties (approximate)	
pH value	5.5
Solubility in water	1.0 %
Solubility in glycols	Soluble

## Safety information

Cosmetic Regulation labelling requirements
No special labelling requirements.

Transport information	
	not regulated
UN number	-
UN proper shipping name	-
Transport hazard class	-
Packing group	-
Environmental hazards	-

Hazard classification/labelling	
Hazard pictograms	
Signal word	Warning
Hazard statements	H302 Harmful if swallowed H332 Harmful if inhaled