

UNIKON A-22

PRESERVATIVE FOR COSMETICS AND OTHER TOPICAL FORMULATIONS

Properties Unikon A-22 is a broad spectrum antifungal preservative, also with good bacteriostatic properties. It can offer effective preservation over a wide range of pH-values (pH= 3 – 10)

Some typical M.I.C. values are listed below:

Candida albicans	250 ppm
Aspergillus niger	250 ppm
Staphylococcus aureus	500 ppm
Pseudomonas aeruginosa	2000 ppm

If necessary, Unikon A-22 can be combined with other antibacterial preservatives (e.g. Phenoxyethanol).

Safety Unikon A-22 shows excellent skin and mucous membrane compatibility; no sensitizing effects are known from literature.

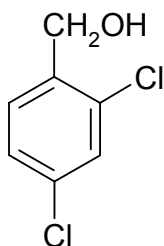
In certain pharmaceuticals for oral or topical application, Dichlorobenzyl Alcohol is used as active ingredient against infections.

Identification

INCI Monograph ID	INCI Name	Chinese Name	CAS No.
782	Dichlorobenzyl Alcohol	二氯苯甲醇	1777-82-8

Empirical formula C₇H₆Cl₂O

Structural formula



Molecular weight	177.03
Appearance	White crystalline substance.
Analytical data	See specification.
Melting point	56° - 62°C
Solubility	Soluble in ethanol, polyethylene glycol, propylene glycol, slightly soluble in water (0.1%)

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Stability	Unikon A-22 is stable even at high temperatures and over a wide pH range.
Use	<p>Unikon A-22 is compatible with all common cosmetic ingredients, especially with common surfactant types, like cationic, nonionic, anionic, amphoteric. It can be used in all kind of cosmetics, including sun care, baby care products, soaps, toiletries, and oral care formulations.</p> <p>Unikon A-22 is easily soluble in organic solvents. In emulsions it can be dissolved in the oil phase. In aqueous systems, the use of glycols is helpful, as Unikon A-22 can be pre-dissolved up to 20% in butylene glycol.</p>
Dosage	0.1 – 0.15% Commonly used at 0.1%
Storage	5°C - 25°C (see safety data sheet)
Shelf life	5 years (see specification)

Registration

EU Annex VI, Part 1 - PRESERVATIVE WHICH COSMETIC PRODUCTS MAY CONTAIN.

Updated through the Commission Directive 2007/22/EC of April 17, 2007
Review and edits of EU Annex VI were completed on February 1, 2010.

EU Reference #: 22	EU Name: 2,4-Dichlorobenzyl alcohol
INCI Name:	Dichlorobenzyl Alcohol
Status:	allowed
Maximum Authorized Concentration:	0.15%
Limitations and Requirements:	None

Conditions of use and warnings which must be printed on the label: None

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References

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8. Von Ottingen Phenol and its Derivates: The relation between their chemical constitution and their effect on the organism. *USA-Government Printing Office, Washington* 1949
9. Carter, D.V. *et al. J.Pharm.Pharmac.* **10**, 149–157 (1958).

Our indications and recommendations have been worked out to the best of our knowledge and conscience, but without any obligation from our part. In particular, we do not take any responsibility concerning protection rights of a third party.