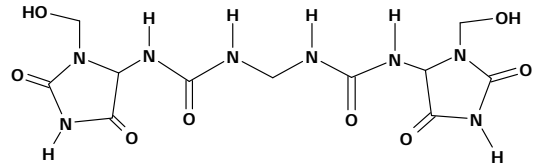


Preservative A15

INCI name: Imidazolidinyl Urea

USP/NF name: Imidurea NF

CAS n°: 39236-46-9



Appearance: Fine white powder

Description

Imidazolidinyl Urea is one of the widest used cosmetic preservatives and since 1977 is the most frequently used in USA, after parabens.

Also listed in USP/NF with the name of Imidurea for use in topical pharmaceutical products.

Judged safe, non irritating and non sensitizer at normal levels of use by the expert panel of the Cosmetic Ingredient Review (CIR).

Antimicrobial activity

Preservative A15 is highly effective against Gram-negative and Gram-positive bacteria. Slightly active at use levels against yeasts and molds.

Properties and stability

Preservative A15 is very soluble in water and polar solvents, not soluble in oils and non polar solvents.

Stable and active in the pH range 3-9. Prolonged working temperature over 50°C should be avoided.

Compatible with cosmetic raw materials, including anionic, non-ionic and cationic ingredients.

Applications

Preservative A15 is widely used in a broad range of cosmetic products. Due to its high water solubility it is easily incorporated in aqueous formulations and emulsions. The many cosmetic applications include:

- *Hair care:* shampoos, lotions, conditioners, gels, mousses.
- *Body and face care:* toners, lotions, creams, masks, wipes.
- *Make up:* foundations, eyeliners, mascaras, powders, wipes.
- *Sun products:* sunscreens, suntans, aftersuns.
- *Bath products:* shower gels, bubble baths, handcleaners, intimate, wipes.
- *Baby care:* shampoos, bath products, gels, lotions, creams, powders, wipes.
- *Raw materials:* surfactants, vegetal extracts.
- *Topical pharmaceutical preparations.*

Use levels

Preservative A15 is normally used at 0.2-0.4% in combination with antifungals. It is synergistic with parabens, sorbic acid, dehydroacetic acid and chelating agents (EDTA).

Regulatory approval

USA and EU: allowed upto 0.6% without limitations.

Japan: allowed upto 0.3% in rinse off products with label.

Technical support

Akema laboratory supports customers in the preservation of any product under development and helps to improve the protection of existing formulations. The optimal level of preservatives to be used is suggested on the basis of specific preservative efficacy testing (Challenge test).

For further information, documentation and sample please contact us.