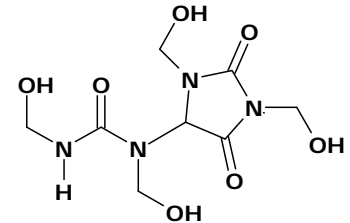


## Preservative A2

**INCI name:** Diazolidinyl Urea

**CAS n°:** 78491-02-8



**Appearance:** Fine white powder

### Overview

Preservative A2 is a very effective cosmetic preservative widely used in many applications. Judged safe and non irritating at normal use levels by the expert panel of the Cosmetic ingredients review (CIR).

### Antimicrobial activity

Preservative A2 is highly effective against Gram-negative and Gram-positive bacteria, with a limited activity against yeasts and molds. More active than Imidazolidinyl Urea.

### Properties and stability

Preservative A2 is very soluble in water and polar solvents, not soluble in oils and apolar solvents. It is stable and active in the pH range 2-9. Prolonged heating over 50°C should be avoided. Compatible with anionic non ionic and cationic systems and with other cosmetic ingredients.

### Applications

Preservative A2 can be easily incorporated in a wide range of cosmetic formulations. For its high water solubility particularly suggested in aqueous formulations and emulsions. Typical applications include:

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

### Use levels

Preservative A2 is typically used at 0,1-0,3% in combination with antifungals. A synergism was proved in combination with parabens and IPBC.

### Regulatory approval

*USA* and *EU:* allowed upto 0.5% without limitations.

*Japan:* not allowed.

### 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.