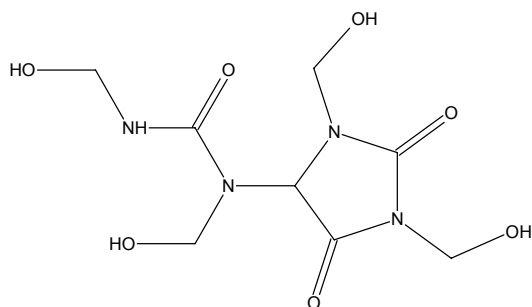


# Abiol Forte

## Preservative



### Chemical and physical characteristics (\*)

Chemical Name	N-[1,3-Bis(Hydroxymethyl)-2,5-Dioxo-4-Imidazolidinyl]-N,N'-Bis(Hydroxymethyl) Urea
INCI Name	Diazolidinyl Urea
CAS Number	78491-02-8
Empirical formula	C <sub>8</sub> H <sub>14</sub> N <sub>4</sub> O <sub>7</sub>
Molecular weight	278.2
Appearance	Odorless, hygroscopic white fine powder
Nitrogen (calculated on dried basis)	19-21%
Solubility (at 25°C)	very soluble in water and glycerin low solubility in oils and ethanol

(\*) Typical values not qualified for quality control purpose

### Applications

ABIOL FORTE is a safe and widely used preservative with good activity against Gram-positive and Gram-negative bacteria.

It is stable in a broad range of pH and compatible with surfactants and protein derivatives.

The synergy between ABIOL FORTE and parabens provides a broad-spectrum preservative system, effective against bacteria as well as mold and yeasts. The addition of EDTA salts can improve the overall efficiency of the system. A typical combination is:

- 0.3% ABIOL;
- 0.2% Methylparaben;
- 0.1% Propylparaben.

The combination of ABIOL FORTE and parabens can be employed in a wide variety of products such as lotions, creams, gels, shampoo and make-up products. These products must be tested in the specific formulation in which it is intended to be used.

### Use

During the preparation of products requiring hot processing, it is recommended to add ABIOL FORTE during the cool-down phase at a temperature below 60°C, in order to avoid heat degradation.

### Toxicological information

Acute oral toxicity (LD <sub>50</sub> , rat)	2,570 mg/kg
Acute dermal toxicity (rabbit)	> 2,000 mg/kg
Skin irritation	non-irritant
Eye irritation	non-irritant
Genotoxicity (Ames test):	absence of mutagenicity

### Transport, storage and handling

**Labeling:** Product is not classified as hazardous according to international transport regulations.

Store in the original closed container in a dry cool place. Protect from moisture.

Avoid breathing dust and contact with skin, eyes and mucous membranes. In case of contact, wash immediately with plenty of water.

### Regulatory status

**EEC:** 768/76 Directive Annex VI Part I; max permitted concentration: 0.5%

**For further information, please refer to safety data sheet.**

The information in this data sheet is based on our present and best knowledge. However we make no warranty, whether expressed or implied, including warranties of merchantability, fitness for a particular use or purpose. The product must be tested by the user according to his needs, production and application conditions and purposes. We do not assume any responsibility for infringement of third parties patent rights, which may arise from the use of the product. For industrial use only. USA.JP.Cos.AbiolForte. 0102



## 3V Inc.

1500 Harbor Boulevard, Weehawken, NJ 07086

Tel. (866) 599-7896 – (843) 520-5109 Fax: (843) 520-5113

3V and logotype are registered trademarks of 3V Partecipazioni Industriali S.p.A. Milano - Italy