



## SPECIFICA TECNICA

### TECHNICAL SPECIFICATION

Prodotto: **IMIDAZOLIDINYL UREA**  
Product **IMIDAZOLIDINYL UREA**

NOME INCI INCI NAME	Imidazolidinyl Urea
NOME INCI USA INCI NAME USA	Imidazolidinyl Urea
CAS CAS NUMBER	39236-46-9
EINECS / ELINCS EINECS / ELINCS	254-372-6
FORMULA FORMULA	C <sub>11</sub> H <sub>16</sub> N <sub>8</sub> O <sub>8</sub>
PESO MOLECOLARE MOLECULAR WEIGHT	388,30
VALIDITA' VALIDITY PERIOD	24 mesi

SPECIFICA SPECIFICATION	METODO METHOD	Lim. Inf. - Lim. Sup. Lower Lim. - Upper Lim.	u.m.
Aspetto Appearance		Polvere bianca White powder	
* Odore Smell		Leggero Light	
* Colore e chiarezza soluzione Colour and clarity of solution	USP/NF	Trasparente, incolore Transparent, colourless	
Identificazione IR Identification IR	USP/NF	Conforme Complies	
pH (Sol. 1%) pH (Sol. 1%)	USP/NF	6,00 - 7,50	
* Ceneri solforiche Sulfated ash	USP/NF	<=3,00	%
Perdita all'essiccamento Loss on drying	USP/NF	<=3,00	%
Azoto totale Total nitrogen	USP/NF	26,00 - 28,00	%

I metodi di analisi non indicati sono metodi interni del produttore ottenibili su specifica richiesta

Le informazioni sopra riportate non Vi sollevano dall'obbligo di identificare il prodotto prima dell'impiego. La nostra società non si assume alcuna responsabilità per danni a persone o cose derivanti dall'impiego dei prodotti da noi commercializzati

The analytical methods not listed are internal methods of the manufacturer obtainable upon specific request

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<i>METALLI PESANTI</i> <i>HEAVY METALS</i>				
* - Metalli pesanti <i>Heavy metals</i>	USP/NF		<=10,00	ppm
* - Arsenico <i>Arsenic</i>			<=3,00	ppm
* Impurezze organiche volatili <i>Volatile organic impurities</i>	USP/NF	Conformi <i>Comply</i>		
* Solventi residui <i>Residual solvents</i>		Conformi (1) <i>Comply (1)</i>		
* Solubilità (10 % in acqua) <i>Solubility (10 % in water)</i>		Solubile <i>Soluble</i>		
* Solubilità in acqua (40%) <i>Water solubility (40%)</i>		Solubile <i>Soluble</i>		
* Colore (sol. 3,0 g in 0,7 g di acqua) <i>Colour (sol. 3,0 g in 0,7 g of water)</i>			<=20,00	APHA
* Torbidità <i>Turbidity</i>			<=6,00	NTU
* Titolo <i>Assay</i>			>=99,00	%
Revisione Capitolato <i>Specification Revision</i>			5	
Data Approvazione <i>Approval Date</i>			25/07/2018	

\* saggi non obbligatori  
*test not required*

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(1) Note Guida per le Impurezze: Solventi Residui (Ph.Eur.; CPMC/ICH/283/95)./ Guidance Note for Impurities: Residual Solvents (Ph. Eur.;CPMC/ICH/283/95).

#### STOREGE:

Store in a well-ventilated, cool, dry area, out of direct sunlight. Highly hygroscopic and keep containers tightly closed when not in use.

#### SOLUBILITY:

Very soluble in water; freely soluble in glycerin; slightly soluble in methanol and ethanol; not soluble in mineral oil.

#### COMPATIBILITY:

Compatible with most cosmetic ingredients, including anionic, cationic and nonionic surfactants, emulsifiers, proteins and other special ingredients.

#### Antimicrobial Activity:

It is effective against both Gram-positive and Gram-negative bacteria when used alone. It acts synergistically with other preservatives. In combination with Parabens and/or Iodopropynyl Butylcarbamate (IPBC), it works particularly well to give broad spectrum antibacterial activity.

#### APPLICATIONS

It is an effective antibacterial preservative in a wide range of liquid and powder type cosmetic products including creams, lotions, shampoos, hair conditioners, powders, wipes and towelettes. It exhibits the following features and benefits:

- Broad spectrum antimicrobial activity and good compatibility
- Safe and effective for both leave-on and rinse-off products; non-irritating, non-sensitizing and non-toxic
- Stable over a wide range of pH 3 - 10
- Highly soluble in water; can be added at a wide range of temperatures 80
- Synergistic with other preservatives, especially parabens and/or Iodopropynyl Butylcarbamate IPBC; the addition of EDTA will enhance its activity
- The recommended use level is 0.2 - 0.5%

The optimum use level of this raw material depends upon the degree of contamination and the susceptibility of the product to be preserved. The above values should be taken as general guidelines only.

#### BSE-TSE FREE

The product does not contain any phthalates

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