



azienda chimica e farmaceutica

SPECIFICA TECNICA

Prodotto **KEMIPUR 100**

NOME INCI	Imidazolidinyl Urea
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CAS	39236-46-9
EINECS / ELINCS	254-372-6
FORMULA	$C_{11}H_{16}N_8O_8$
PESO MOLECOLARE	388,30
VALIDITA'	24 mesi

SPECIFICA	METODO	Lim. Inf. - Lim. Sup.	u.m.
Aspetto		Polvere bianca	
* Odore		Leggero	
Colore e chiarezza soluzione	USP/NF	Trasparente ed incolore	
Identificazione IR	USP/NF	Conforme	
pH (Sol. 1%)	USP/NF	6,0 - 7,5	
Ceneri solforiche	USP/NF	$\leq 3,0$	%
Perdita all'essiccamento	USP/NF	$\leq 3,00$	%
Azoto totale	USP/NF	26,0 - 28,0	%
Metalli pesanti	USP/NF	$\leq 10,0$	ppm
* Impurezze organiche volatili (O.V.I.)	USP/NF	Conforme	
* Solventi residui		Conforme alle Note Guida per le Impurezze: Solventi Residui (Ph.Eur.; CPMC/ICH/283/95)	
* Solubilità (al 10 % in acqua)		Solubile limpida	
* Colore (sol. 3,0 g in 0,7 g di acqua)		≤ 20	APHA
* Torbidità		$\leq 6,0$	NTU
Revisione Capitolato		1	
Data Approvazione		13/10/2010	

* saggi non obbligatori



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Storage:

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.