



ALG Chemicals

Chemistry for Hygiene & Healthy Life

TECHNICAL DATA SHEET

ALGCare - CPC (Cetylpyridinium Chloride)

CAS No.	MOLECULAR WEIGHT	MOLECULAR FORMULA	MANUFACTURER
6004-24-6	358.0 g/mol	$C_{21}H_{38}ClN.H_2O$	ALG CHEMICALS

- ✓ A cationic quaternary ammonium compound.
- ✓ Safe & cost-effective multifunctional antimicrobial with broad spectrum efficacy against gram -positive & gram-negative bacteria and fungi at very low dosage rates
- ✓ CPC as antimicrobial is also effective in preventing and reducing plaque-induced gingivitis by acting against oral bacteria such as streptococcus, lactobacillus, staphylococcus, corynebacteria.
- ✓ Sustainable oral care ingredient which is effective in preventing dental plaque & reducing gingivitis.
- ✓ Easy to handle, biodegradable, odourless, soluble, stable, formaldehyde free, non-corrosive, non-VOC, non-oxidizing compound with neutral pH
- ✓ **CPC is an excellent replacement for formaldehyde-donors, parabens, triclosan, triclocarban & benzethonium chloride**
- ✓ As Preservative in Cosmetic formulations, Oral Hygiene and Antiperspirant Deodorants
- ✓ As Antimicrobial in :Oral care/Mouthwash, Surgical Gloves, Skin care and Wet Wipes
- ✓ CPC is evaluated for its effectiveness in removing or killing gram-negative bacteria like salmonella & campylobacter from poultry carcasses
- ✓ ALG CHEMICALS manufactures CPC under ISO 9001:2015, FDA –GMP Conditions.
- ✓ With proven quality excellence, our products are approved & accepted by customers worldwide





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CHARACTERISTICS:	A white to off white powder ,slightly soapy to touch
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SPECIFICATION:	TEST	LIMIT
	Assay (On the anhydrous basis)	98.0-102.0 %
	Identification	
	A	To pass test
	B	To pass test
	C	To pass test
	Acidity Not more than 2.5 ml of 0.02 N NaOH solution is required to change the color of solution	Not more than 2.5 ml
	Water	4.5-5.5%
	Residue on ignition (on the anhydrous basis)	Not more than 0.2%
	Organic impurities	
	a) Any individual unspecified impurity	NMT 0.1%
	b) Total impurities	NMT 1.0%

PACKAGING:	25 kg HDPE Drums Other sizes available upon request.
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SHELF LIFE	3 years from date of manufacture
STORAGE CONDITIONS	Store in tightly closed, light resistant container and keep in cool, dry place

TRANSPORT REGULATIONS	Classified as hazardous substance according to transport regulations (class 6.1 ,UN 2811)
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APPLICATION

All-purpose cleaner
Antimicrobial solutions
Antiperspirants deodorant
Antiseptic creams
Antiseptic sprays
Antiseptic towels
Baby wipes
Bactericide
Bar soaps
Bleaching products
Breathe fresheners
Cationic detergent
Cationic surfactant

Tooth paste
Water treatment solution
Wound treatment Solution
Surgical gloves
Throat Lozenges
Cough syrups

Conditioner Cosmetics
products
Disinfectant
Fabric softener
Facial wipes
Glove donning
Hair color
Hair conditioners
Hair relaxer
Hair shampoo
Hair spray
Hand sanitizer
Home care products
Laundry detergent

Leave-in conditioner
Liquid hand soaps
Lotions
Mouthwash Disinfectant
Nasal sprays
Oral care
Oral pain relief
OTC formulations
Personal cleansing
Pesticides
Poultry industries
Preservatives
Teeth whitening



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