



Specification

Concerning Product:	
Article number	6004246APE
Trade name / designation / denomination	Cetylpyridiniumchlorid monohyd, Ph. EUR.
CAS number	6004-24-6
Other names / synonyms	•1-hexadecylpyridin-1-ium chloride hydrate;
EC number	204-593-9
Customs tariff number / CN code / TARIC	29333999
Molecular weight [g / mol]	358.0014
Formula	C ₂₁ H ₄₀ ClNO
Danger UN 2811/2811, 6.1, II	
Toxic if swallowed. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. Fatal if inhaled. May cause respiratory irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear respiratory protection. Dispose of contents/container in accordance with local/regional/international regulations.	

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution	EP	1,0 % w/v Solution is not more opalescent than reference suspension.	
Appearance	EP	A white or almost white powder, slightly soapy to the touch	
Physical parameter			
Acidity/Alkalinity	EP	(0.02 mol/L NaOH) ≤ 2,5	ml
Water content	EP	4,5 – 5,5	%
Solubility	EP	Soluble in water and in alcohol. An aqueous solution froths copiously when shaken	
Identity			
Assay	EP	C ₂₁ H ₃₈ ClN (o.d.b. EP): 96 – 101	%
Identification	EP	A: UV absorbtion	
Identification	EP	B: IR Absorbtion Spectrum	
Identification	EP	C (Chloroform): The Chloroform layer become blue.	
Identification	EP	D (Chlroides): Solution S gives Reaction (a) of Chlorides.	
Identification	EP/BP	To comply with BP/EP test: first identification: B, D second identification: A, C, D	
Impurities			
Sulphated ash	EP	≤ 0,2	%
Impurity	EP	Amines & amines salts: Titrant volume between the 2 points ≤ 5	ml

Supplemental information:

Shelf life: 5 years

Storage conditions: Keep in tightly closed, light resistant original packing

Complies with monographie: Ph.Eur. / BP

Packing: 25 kg net.

Regional origin: IND

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 01. Mar. 2023

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