

## Certificate of Analysis

Date of Testing: 2023-05-10 15:50:45  
Date of Next Testing: 2027-05-09 15:50:45  
Product Name: **Hexadecylpyridinium chloride monohydrate**  
CAS Number: 6004-24-6  
Specifications & Purity: 98%  
Lot #: D23231285  
SKU #: **H108696**  
**Analysis:** **162378**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
Free amine and amine salts	0-0.05 (%)	0.03 %
Water by Karl Fischer	4.5-5.5 (%)	5.28 %
Melting point	81-86 (°C)	85.89000 °C
Purity(Titration by AgNO <sub>3</sub> )	97.5-102.5 (%)	102.34 %
Appearance (H108696)	White to Off-White Solid, Powder, or Crystals	White to Off-White Solid, Powder, or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless to Faint Yellow ,Clear,100 mg/mL	pass	Pass



John Su  
QA & QC Manager