



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-239299  
Lot Number: SAMPLE  
Product Name: Benzethonium chloride  
CAS Number: 121-54-0  
Molecular Formula:  $C_{27}H_{42}NO_2 \cdot Cl$   
Molecular Weight: 448.08

Test	Result
Appearance	White crystals
Assay (Dried Basis)	99.8%
Melting Point	158.0 -160.0 °C
Residual Solvents	Methyl ethyl ketone: 41 ppm Toluene: 19 ppm
Residue on Ignition	0.08%
Solubility	Soluble in water, alcohol, and chloroform. Slightly soluble in ether.
Limit of ammonium compounds	No perceptible odor of ammonia
Amine Group Test	Orange-red solution, may form brown precipitate
Loss on Drying	0.36%
Chloride	White precipitate, insoluble in 2 N nitric acid, soluble in 6 N $NH_4OH$ is formed
Mercuric Chloride	Precipitate formed with 2 N nitric acid and mercuric chloride TS, dissolved on addition of alcohol

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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