

CERTIFICATE OF ANALYSIS

Standard product specification

Benzalkonium Chloride

CAS 63449-41-2 · 50% solution

1. PRODUCT IDENTITY

Product name	Benzalkonium Chloride
C.A.S. number	63449-41-2
Grade / standard	50% solution
Description	Clear colorless to yellow liquid
Product group	Biocides & Disinfectants
Category	Water Treatment Chemicals
Country of origin	India
Packing	Bags, drums, carboys, IBC or ISO tank as applicable — customer-specified packing available
Storage	Cool, dry, well-ventilated place in tightly closed original packing

2. ANALYTICAL SPECIFICATION

S. NO.	TEST PARAMETER	SPECIFICATION	TYPICAL RESULT	METHOD
1	Description	Clear colorless to yellow liquid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Assay	Not less than 50.0 % w/w	50.77	Titrimetry / Instrumental
4	Specific Gravity at 25 °C	As per specification	Conforms	Hydrometry
5	pH (as supplied)	As per specification	6.5	Potentiometry
6	Iron (as Fe)	Not more than 50 ppm	11.2 ppm	ICP-OES

7	Heavy Metals (as Pb)	Not more than 10 ppm	Less than 5 ppm	ICP-OES
8	NSF/ANSI 60 suitability	Suitable for potable water treatment	Complies	Manufacturer declaration

3. DECLARATION

This document sets out the standard specification for Benzalkonium Chloride and applies to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd. It is not a lot-specific release document; a lot-specific certificate carrying the analysis of the material actually shipped is issued with, and travels with, each consignment. Scapex Exports supplies against customer-specified assay limits and pharmacopoeial standards — send your specification sheet and we confirm compliance in writing before the order is accepted.



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