

Benzalkonium Chloride (BKC)

Biocide and disinfectant – 50/80/90%

Product Description

Benzalkonium Chloride (BKC) is a quaternary ammonium biocide used as a disinfectant, preservative and antiseptic in pharmaceutical, medical and industrial applications. Available as 50%, 80% and 90% solutions.

Certificate of Analysis

HSN Code: 3402.20

CAS Number: 68391-01-5

Classification: Biocide / Disinfectant – Quaternary

Parameter	Specification	Test Method
Appearance	Clear to slightly yellow liquid	Visual
Assay (BKC Active)	50% / 80% / 90% as per grade	Two-phase Titration
pH (1% aq. solution)	5.0–8.0	Potentiometry
Color (APHA)	"d 1 0 0	Hazen scale
Residue on Ignition	Consistent with active content	Gravimetric
Clarity	Clear to slightly hazy	Visual
Heavy Metals	"d 2 0 p p m	ICP-MS
Specific Gravity (50% grade)	0.980–1.000	Hydrometer

Physical Properties

Appearance: Clear to slightly yellow liquid

Odor: Characteristic amine-like odor

Solubility: Miscible with water, ethanol

Packing: 25 kg / 50 kg HDPE drums; 250 kg HDPE drums; IBC 1000 L containers

Storage: Store in cool, dry, well-ventilated area. Keep away from strong oxidizers and acids. Keep containers tightly closed.

Safety & Handling

PPE: Chemical-resistant gloves, safety goggles, protective clothing

Hazards:

- Harmful if swallowed or inhaled
- Causes skin and eye irritation
- Harmful to aquatic organisms