



# Technical Data Sheet

## Benzalkonium Chloride 80%

<b>Molecular Formula</b>	: C <sub>21</sub> H <sub>38</sub> NCI
<b>Molecular Weight</b>	: 340.0 g/mol
<b>pH</b>	: 6.0-8.0 (1% water solution)
<b>EC No.</b>	: -
<b>CAS No.</b>	: 63449-41-2, 8001-54-5

### Properties:

BKC 80% is the short name of Benzalkonium chloride 80% aqueous solution. It is a kind of quaternary ammonium-based nonoxidizing biocide. It belongs to cationic surfactants.

BKC 80% has excellent properties of dispersing and penetrating. It can easily penetrate and remove sludge and algae in water flooding for EOR (enhanced oil recovery).

Benzalkonium chloride has the advantages of low toxicity and no toxicity accumulation. And it is also soluble in water. The BKC 80% is so convenient to use and unaffected by water hardness. BKC 80 can be also used as an anti-mildew agent, antistatic agent, emulsifying agent, and amendment agent in woven and dyeing fields.

Benzalkonium chloride is soluble in water, alcohol, and acetone. Slightly soluble in benzene. Benzalkonium chloride 80% aqueous solutions are slightly alkaline to litmus and foam strongly when shaken.

It has been reported that benzalkonium chloride inactivates HIV and HSV in vitro.

### Specification:

Citric acid is supplied in accordance with the current requirements of the Food Chemicals Codex (FCC), the US Pharmacopeia (USP), the European Pharmacopoeia (Ph. Eur.), and the Commission Regulation (EU) No 231/2012.

Parameters	
Appearance	Yellowish transparent liquid
Cationic activity	80% ±2%
Amine salt	1.0% Max.
pH value	6.0-8.0 (1% water solution)
Flowability	Good fluidity
Solubility	Soluble in water and alcohol
Specific gravity	< 100 mg/kg



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## Applications:

Benzalkonium Chloride 80% aqueous solution is a biocide, preservative, and surfactant. It is commonly found in household disinfectants and cleaning supplies.

Benzalkonium Chloride 80% is also found use in Pharma Industries for Eye Drops, Dental Solutions, and Ointments. Provides Antiseptic & Anti-static finish to textile (Bio Wash).

BKC 80% is widely used in many fields because it can efficiently control bacteria, algae, and fungi and envelop viruses at exceptionally low ppm concentrations. Such as food, water treatment, cosmetics, pharmaceuticals, livestock, detergent, aquaculture, household, and hospital industries.

In the oil and gas industry, BKC 80% can prevent algae growth, bacteria's development, and also sludge reproduction.

BKC 80% can also be used in the formulation of pipeline corrosion inhibitors, sludge breakers, and de-emulsifiers for the enhanced oil process of recovery.

As a nonoxidizing biocide, the dosage of 50-100mg/L is preferred. As sludge remover, 200-300mg/L is preferred, and an adequate organosilyl antifoaming agent should be added for this purpose.

## Safety protection:

Almond smell, no stimulation to skin. Flush with water once contacted.

## Packaging:

1000 ltr IBC

## Important:

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of reliance on the information provided herein.