

ADBAC / Benzalkonium Chloride (50% / 80%)

Alkyl Dimethyl Benzyl Ammonium Chloride is a water-soluble cationic surfactant supplied in 50% and 80% grades for industrial formulations.

CAS No. 68424-85-1	EC No. 270-325-2	Grades 50% / 80%
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Product Information

Commercial C12–16 alkyl quaternary ammonium chloride mixture, also known as Benzalkonium Chloride (BKC / BAC). Colorless to pale yellow transparent liquid; soluble in water. Compatible with cationic and amphoteric systems; limited compatibility with anionic ingredients.

Specifications

Parameter	Specification
Appearance (20°C)	50% & 80%: colorless to pale yellow transparent liquid
Color (Hazen)	50%: ≤100; 80%: ≤150
pH	50% & 80%: 5.0–8.0
Active content / assay (%)	50% grade: 50 ± 1; 80% grade: 80 ± 2
Free amine + amine hydrochloride (%)	50%: ≤1.5; 80%: ≤2.0
Water solubility	Soluble

Confirm the selected grade and batch COA before ordering. pH test conditions are confirmed with the approved specification.

Applications

Water treatment: Microbial control ingredient for compatible industrial cooling-water and pool-treatment formulations.

Sanitizing and cleaning: Cationic ingredient for suitable household, institutional and industrial formulations.

Textile processing: Softening, antistatic and conditioning applications in compatible systems.

Wet wipes: Functional cationic ingredient where the formulation and intended use permit it.

Packaging / Storage

Item	Information
Packing	200 kg PE drums; alternatives confirmed with the order.
Storage	Keep tightly closed in a cool, dry, ventilated area, protected from direct sunlight and contamination.
Shelf life	Expected 2 years in sealed original packaging under recommended storage conditions; confirm batch dates.
Handling	Obtain the selected grade's SDS before handling or shipment; validate formulation compatibility and end-use requirements.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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