

## Product Information

# Barquat MB-80

The grade one premium quality ADBAC.

Specially selected blends of Alkyl Dimethyl Benzyl Ammonium Chlorides.

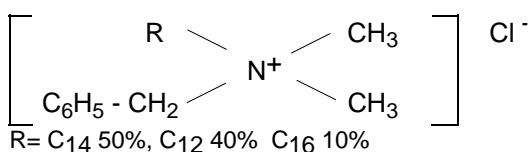
High germicidal activity in hard water.

Effective microbiocide, deodorant, and algaecide.

Properties meet with USP and EP.

### 1. Active matter

N-Alkyl-N,N-dimethyl-N-benzylammonium Chloride  
INN: Benzalkoniumchloride



1.1	CAS No.:	68424-85-1
1.2	EINECS No.:	270-325-2
1.3	UN No.:	2920
1.4	INCI-Name:	Benzalkonium Chloride

### 2. Specifications

2.1	Appearance at 20°C	clear liquid
2.2	Colour, Apha	250 max.
2.3	pH 1% aqueous solution	4.0 - 6.0
2.4	Assay (Titration, MW 357)	80.0 - 82.0 %
2.5	Free Amine + Amine HCl	1.5 % max.
2.6	Ash	1.2 % max.

### 3. Properties

3.1	Odour	Ethanol
3.2	Density (DIN 51757)	approx. 0.95 g/cm <sup>3</sup> (20°C)
3.3	Average Molecular weight	357
3.4	Flash Point (DIN 51755 cc)	34 - 44 °C
3.5	Surface tension (1% aqueous solution)	29 mN/m
3.6	Viscosity, dynamic (DIN 53015)	Approx. 300 mPas (20°C)
3.7	Ionogenicity	cationic
3.8	Freeze thaw stability	good
3.9	Solubility	freely soluble in water, lower alcohols, ketones and glycols
3.10	Compatibility	compatible with inorganic detergent builders and nonionic surface active agents and most polar solvents Incompatible with soap or anionic surface active agents.
3.11	Setting point (approx)	< 10°C
3.12	Ethanol	10 - 15 %
3.13	Water	5 - 10 %

## 4. Registrations

- 4.1. Europe European Inventory of Existing Chemical Substances (EINECS)
- 4.1.1 Switzerland BAG T No. 54703 / Toxicity class : 3
- 4.1.2 France Specified in positive list for use in food industry (excl.dairy industry)
- 4.2. USA Toxic Substances Control Act (TSCA) Inventory  
EPA registration No. 6836-14  
FDA 21 CFR 178.1010 approval
- 4.3. Australia Australian Inventory of Chemical Substances (AICS)

## 5. Antimicrobial efficacy

### 5.1 BACTERIA

The bactericidal efficacy has been tested and shown according to the following test procedures:  
DGHM (Germany) -- Kelsey-Sykes (UK) -- AOAC (USA)

### 5.2 FUNGI & YEAST

The fungicidal activity of Barquat MB-80 has been demonstrated in presence of  
Trichophyton interdigitale.

### 5.3 ALGAE

The algaestatic concentration of Barquat MB-80 amounts to 1.0 ppm  
The algaecidal concentration of Barquat MB-80 was shown to be 2.0 ppm.  
Strain tested: Chlorella pyrenoidosa.

## 6. Other investigations

Information available upon request.

## 7. Use areas

Hospital Area Disinfection  
General Disinfection and General Sanitizing  
Algae Control for Swimming Pools (Initial dose: 2ppm, followed by a maintenance dose of 0.5 ppm every 5 - 7 days)

## 8. Recommendations to formulate

Incompatible with anionic detergents.

## 9. Analytical procedure

Titration (ISO 2871-2)

## 10. Storage

Product is supplied in polyethylene drums holding 170 kgs net.  
It can be stored in the sealed original drum over a period of two years.  
*Stir thoroughly before use to assure uniformity*

## 11. Regulatory information

refer to MSDS

## 12. Toxicological information

refer to MSDS

## 13. Ecological and ecotoxicological information

refer to MSDS

## 14. Biodegradability

The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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