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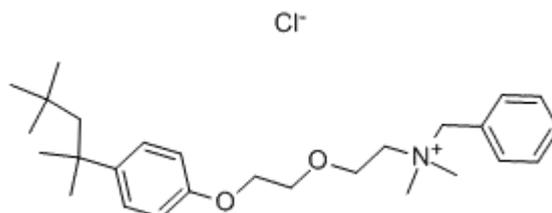
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## Technical Data Sheet

# Benzethonium chloride

### Product Information

Product Name	Benzethonium chloride
Synonyms	Benzyltrimethyl(2-(2-(p-1,1,3,3-tetramethylbutylphenoxy)ethoxy)ethyl)ammonium chloride;N,N-Dimethyl-N-(2-(2-(4-(1,1,3,3-tetramethylbutyl)phenoxy)ethoxy)ethyl)benzenemethanaminium chloride
CAS No.	121-54-0
EINECS No.	204-479-9
Molecular formula	C <sub>27</sub> H <sub>42</sub> ClNO <sub>2</sub>
Molecular weight	448.08
Chemical structure	



### Physical Properties

Appearance	White fine powder or crystals
Melting Point	162-164°C (lit.)
Density	0.998 g/mL at 20°C
Water solubility	1-5 g/100 mL at 18°C
Solubility	Easily soluble in cold water, hot water. Soluble in methanol, acetone. Partially soluble in diethyl ether

### Specification

<u>Items</u>	<u>Specification</u>
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Appearance	White fine powder or crystals
Assay	99-103%
Melting Point	158-163°C
Solubility	Soluble in water methanol and alcohol
PH (5% water solution)	8-10
Transparency in water solution	Transparent colorless no suspended solids
Limit of ammonium compounds	The odor of ammonia is not perceptible
Residue on ignition	≤0.1%
Loss on drying	≤5%

### Safety

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable

Always refer to the Material Safety Data Sheet (MSDS)

### Applications

- 1) Benzethonium Chloride USP is used as germicide for pharmaceutical and cosmetic products. (USP grade of Hyamine(R) 1622 crystals).
- 2) It can be used as a bactericide, deodorant, or as a preservative in various applications including those in personal care, veterinary and pharmaceutical.
- 3) Cationic surface active agent.

### Packaging

20kg or 25kg per fiber drum, or according to customer's requirement.

### Storage

Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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