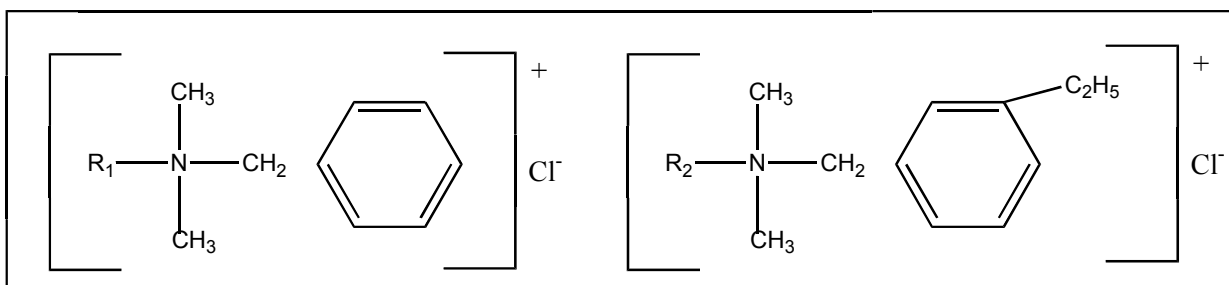


## BARQUAT™ 4250Z

## BARQUAT™ 4280Z

Quaternary Ammonium Compounds  
EPA Registered



Barquat™ 4250Z and Barquat™ 4280Z are blends of alkyl dimethyl benzyl ammonium chlorides and alkyl dimethyl ethylbenzyl ammonium chlorides. When used as an active ingredient in FIFRA<sup>1</sup> registered formulations such as hard surface disinfectants, sanitizers and/or certain types of water treatment formulations, these products have been found to provide superior biocidal action against a broad spectrum of microbial organisms such as: bacteria, fungi, viruses, and algae. This “second” generation quaternary ammonium compound delivers potent germicidal action even in heavy organic soil loads.

### Typical Chemical Composition

	<u>Barquat™ 4250Z</u>	<u>Barquat™ 4280Z</u>
<b><u>Active Ingredients</u></b>		
Alkyl (C <sub>14</sub> 60%, C <sub>16</sub> 30%, C <sub>12</sub> 5%, C <sub>18</sub> 5%)		
Dimethyl Benzyl Ammonium Chloride	25%	40%
Alkyl (C <sub>12</sub> 68%, C <sub>14</sub> 32%)		
Dimethyl Ethylbenzyl Ammonium Chloride	25%	40%
<b><u>Inert Ingredients</u></b>		
Ethyl alcohol	-----	10%
Water	50%	10%

<sup>1</sup> FIFRA – Federal Insecticide, Fungicide and Rodenticide Act

## Typical Properties

	<b>Barquat™ 4250Z</b>	<b>Barquat™ 4280Z</b>
Appearance	Clear, pale yellow to straw liquid	Clear, pale yellow to straw liquid
Color, (APHA)	125 Max.	200 Max.
pH, (10% active solution)	6.5-8.3	6.5-8.3
Flash Point, (Setaflash, °F)	200	117
Average Molecular Weight	377	377
Specific Gravity @ 25°C	0.96	0.94
Density in lbs./gal.	8.00	7.84
Freezing Point, °F	14	14

## Physical State

Clear, pale yellow to straw liquid with a mild odor. Congealing may occur during prolonged storage at low temperatures; this is a reversible on warming with mixing.

## Solubility

Freely Soluble in water, lower alcohols, ketones and glycols.

## Safety & Toxicology

Refer to Lonza Material Safety Data Sheet for this product.

<u>Regulatory</u>	<b><u>Barquat™ 4250Z</u></b>	<b><u>Barquat™ 4280Z</u></b>
<b>EPA Registration No.:</b>	6836-26	6836-23
<b>Canadian Pesticide Control No:</b>	21904	21901
<b>CAS No.:</b>	53516-76-0 & 85409-23-0	53516-76-0 & 85409-23-0
<b>California Registered:</b>	Yes	Yes

Barquat™ 4250Z and Barquat™ 4280Z are permitted for use as indirect food contact surface sanitizers as noted in 40 CFR 180.940(a).

The components of Barquat™ 4250Z and Barquat™ 4280Z are listed in the United States Environmental Protection Agency TSCA Chemical Inventory list.

## Application

Barquat™ 4250Z and Barquat™ 4280Z have been incorporated into a substantial number of Lonza EPA registered formulations. These formulations include but are not limited to: disinfectants, sanitizers, and industrial water treatment. For more information on Lonza's extensive portfolio of EPA registered formulations and our Supplemental Registration Program please call our Technical Service Hotline at (800) 365-TECH (8324).