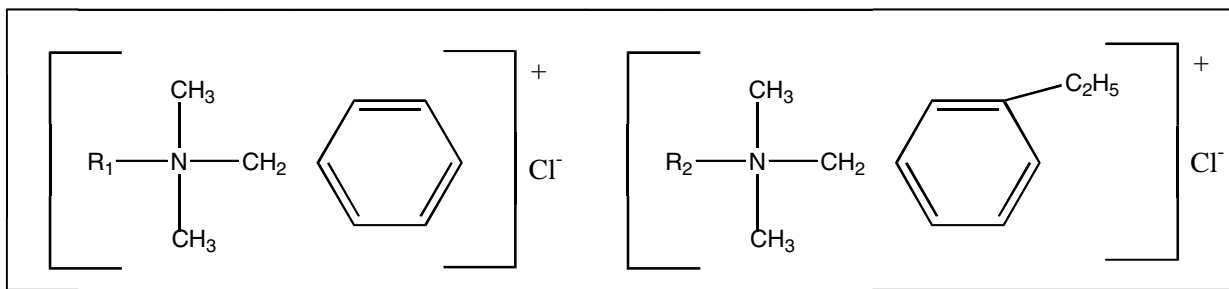


BARQUAT[®] 4250Z

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 FIFRA¹ 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>
<u>Active Ingredients</u>		
Alkyl (C ₁₄ 60%, C ₁₆ 30%, C ₁₂ 5%, C ₁₈ 5%)		
Dimethyl Benzyl Ammonium Chloride	25%	40%
Alkyl (C ₁₂ 68%, C ₁₄ 32%)		
Dimethyl Ethylbenzyl Ammonium Chloride	25%	40%
<u>Inert Ingredients</u>		
Ethyl alcohol	-----	10%
Water	50%	10%

¹ FIFRA – Federal Insecticide, Fungicide and Rodenticide Act

The seller makes no warranty, expressed or implied, concerning the accuracy of any results to be obtained from the use of this information and no warranty is expressed or implied concerning the use of these products other than indicated within. The buyer assumes all risks of use and/or handling. No statement is intended or should be construed as a recommendation to infringe any patent. Printed in the USA

Typical Properties

	Barquat 4250Z	Barquat 4280Z
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.

Regulatory	Barquat 4250Z	Barquat 4280Z
EPA Registration No.:	6836-26	6836-23
Canadian Pesticide Control No:	21904	21901
CAS No.:	68391-01-5 & 27479-28-3 & 27479-29-4	68391-01-5 & 27479-28-3 & 27479-29-4
California Registered:	Yes	Yes

Barquat 4250Z and Barquat 4280Z are permitted by the FDA for use as no rinse, food contact sanitizers at no more than 200 ppm active, as noted in 21 CFR part 178.1010.

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).