



Class	Representative Examples		Antimicrobial Activity (1=active; 2=weakly active; 3=inactive)				Formul. Conc. (%)	Optimal pH	O/W coef.
	Spectrum Cat. No.	Product Description	Gram +	Gram- -	Yeasts	Molds			
Parabens	ME163	Methylparaben, NF	1	3	2	2	0.4-0.8	3.0-9.5	7.5
	M1277	Methylparaben Sodium, NF							
	ET117	Ethylparaben, NF							
	PR133	Propylparaben, NF							80
	P1457	Propylparaben Sodium, NF							
	BU115	Butylparaben, NF							280
Organic Acids & Salts	BE140	Benzoic Acid, Crystal, USP, EP, BP, JP	1	2	3	3	0.1	2-5	3-6
	SO120	Sodium Benzoate, NF							
	P1181	Potassium Benzoate, NF							
	SO215	Sorbic Acid, Powder, NF	2	2	1	2	0.2	<6.5	3-5
Quaternary Ammonium Compounds	B1620	Benzalkonium Chloride, NF	1	2	2	3	0.01-0.25	4-10	<1
	BE129	Benzethonium Chloride, USP							
Alcohols	BE158	Benzyl Alcohol, NF	1	3	3	3	1-3+	<5	1-3
	ET107	Dehydrated Alcohol, 200 proof, Udenatured, USP	1	1	2	3	>22	Acidic	
	P1058	Phenylethyl Alcohol, USP	2	1	3	3	<1	Acidic	21.5
	CH123	Chlorobutanol, Anhydrous, NF	1	1	2	1	0.5	Acidic	High
	CH122	Chlorobutanol, Hydrous, NF							
Organic Mercurials	TH125	Thimerosal, USP	1	2	2	3	0.001- 0.01	7-8	Low
	PH150	Phenylmercuric Acetate, NF	1	1	3	2	0.002- 0.01	6-8	0.4
	PH155	Phenylmercuric Nitrate, NF							

+ For rinse-off products