



# “E-2” Rated Cleanser

## 1.75% PCMX

### Features & Benefits

- Authorized by U.S.D.A. for use in federally inspected meat and poultry plants
- Highly effective against a wide range of bacteria
- Dye-free and fragrance-free
- Safe for foodservice areas

### Product Characteristics

Color: Transparent (Pale Yellow)

Fragrance: Lightly Medicinal

Viscosity: 500 - 1,500 cps

pH: 6.0 - 7.0

DIN #02243414

Product Data	
Critical Ingredients	Performance
Chloroxylenol	Provides for reduction in microorganisms
All synthetic surfactant	Provides effective cleaning, degreasing, and long-lasting lather
Synthetic polymer	Provides pleasant feel while washing, and smooth after-feel
Dye-Free and Fragrance-Free	In accordance with U.S.D.A. E-2 rating

### MICROBIAL TIME-KILL RESULTS

MICROORGANISM	Reduction (%)
Escherichia coli (ATCC # 8739)	99.99%
Methicillin-Resistant Staphylococcus aureus (ATCC # 25923)	99.99%
Staphylococcus aureus (ATCC # 6538)	99.99%
Salmonella typhimurium (ATCC # 14028)	99.99%
Pseudomonas aeruginosa (ATCC # 15442)	99.99%
Klebsiella pneumonia (ATCC # 13883)	99.99%
Serratia marcescens (ATCC # 14756)	99.99%
The data summarized shows the percent of reduction of organisms exposed to “E-2” Rated Cleanser after 15 seconds.	

Source: Bio Science Laboratories, Inc.

### Time-Kill Studies

**Objective:** This test was designed to evaluate the antimicrobial effectiveness of product formulations when challenged with different microorganism strains representing the broad spectrum of germs that may cause the spread of infectious diseases.

**Description:** Viable cultures of individual pathogenic organisms were inoculated in “E-2” Rated Cleanser. At specific time intervals, portions of the inoculated product were removed and immediately placed into neutralizers to stop any further antimicrobial activity. The organisms surviving in the neutralized product were then enumerated by standard plate count techniques.

**Conclusion:** The test determined that “E-2” Rated Cleanser is rapidly effective against the wide range of microorganisms tested.

## Preservative Efficacy

**Products:** Kimberly-Clark® “E-2” Rated Cleanser

**Methodology:** Preservative Challenge - USP Preservative Efficacy Test

**Objective:** This test determines the quality and efficacy of a product’s preservative system by a 28-day challenge, after 90 days of accelerated aging.

**Description of Test:** Finished product samples were tested in the Microbiology Laboratory of Silliker Laboratories using the USP Antimicrobial Preservatives - Effectiveness test. Viable suspensions of five microorganisms were inoculated into the test samples. The samples were then incubated and microbial counts determined at seven, fourteen, twenty-one and twenty-eight days.

**Interpretation:** The preservative is effective in the product examined if (a) the concentrations of viable bacteria are reduced to no more than 0.1% of the initial concentrations by the fourteenth day; (b) the concentrations of viable yeasts and molds remain at or below the initial concentrations during the first 14 days; and (c) the concentration of each test microorganism remains at or below these designated levels during the remainder of the 28-day test period.

**Results:** The preservative system in the Kimberly-Clark® “E-2” Rated Cleanser is effective across a range of different types of microorganisms and exceeds the USP Preservative Efficacy Standards.

## PCMX Efficacy and Mildness

PCMX (para-chloro-metaxylenol) has been used for decades as an active ingredient in many antiseptics and disinfectants. PCMX works by disrupting microbial cell walls and inactivating the enzymes of microorganisms. It also has a high initial reduction of gram-positive and gram-negative bacteria as well as fungi. PCMX has become popular in the U.S. as an active ingredient in antimicrobial handwashing products for health care personnel. All of Kimberly-Clark’s PCMX-based antimicrobial soaps are registered with the FDA.

Any irritancy/mildness as well as antimicrobial effectiveness is highly dependent on the formula of each PCMX hand cleanser. When properly formulated, PCMX is an effective antimicrobial agent for handwashing products.



### Our Guarantee

If, for any reason, our products do not meet your expectations, Kimberly-Clark will reimburse you\* for your initial purchase, via FREE product, for up to \$1,000.

Just contact your local Kimberly-Clark representative and fill out the Guarantee of Satisfaction form with your initial proof of purchase. We will reimburse you, “No Questions Asked.”

We’re only a phone call away. For more information, or for the name of the Kimberly-Clark distributor nearest you, call our Customer Solutions Center at 1-888-346-4652 or look for us on the World Wide Web at [www.kcprofessional.com](http://www.kcprofessional.com).

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