

**GENERAL DESCRIPTION**

LabKlenz 200 Acid Detergent is a phosphoric acid based liquid detergent designed to meet the high demands of the research laboratory environment. LabKlenz 200 Acid Detergent effectively removes a wide spectrum of soils including hard water scale, inorganic salts and metal oxides. LabKlenz 200 Acid Detergent is designed to be free rinsing and can be used with most glass and stainless-steel substrates. LabKlenz 200 Acid Detergent can be used for most cleaning applications including glassware washers and manual scrub.

**FEATURES**

Low foaming across a wide temperature range  
 Contains biodegradable surfactants  
 Excellent hard water tolerance

**BENEFITS**

Can be used in high-impingement spray applications.  
 Environmentally friendly. Complies with EC 648/2004.  
 Minimizes mineral deposits.

**PHYSICAL PROPERTIES**

Form ..... Colorless, clear liquid  
 Odor..... Slight chemical  
 Specific Gravity (25°C [77°F]) ..... 1.34, typical  
 pH (1% w/w solution) ..... 2.0, typical  
 Solubility..... Complete  
 Foam..... Low and controlled

**DIRECTIONS FOR USE**

Typical use-concentrations of LabKlenz 200 Acid Detergent range from 1-4% (v/v). The use-concentration is determined by the type of soil and water conditions. Typical operating temperatures range from ambient to 80°C (176°F). LabKlenz 200 Acid Detergent can be added manually or through automatic feed equipment.

**TESTING FOR USE-DILUTIONS OF LABKLENZ 200 ACID DETERGENT**

Use titration Test Kit EQ 1411 with Indicator A and Alkali 3

<b>Concentration</b>	<b>1/4 oz./gal (0.2%)</b>	<b>1/2 oz./gal (0.4%)</b>	<b>1.0 oz./gal (0.8%)</b>	<b>2.0 oz./gal (1.6%)</b>	<b>4.0 oz./gal (3.2%)</b>
Drops of Alkali 3	2 - 3	4 - 5	7 - 8	14	25 - 27

Test Kit EQ 1411 contains Alkali 3 (12% NaOH) and Indicator A (Phenolphthalein). The sample solution is measured by filling a small vial (10 ml) that comes in the test kit. This solution is then added to a larger vial. Five drops of Indicator A are added to the test solution and swirled. Alkali 3 is then added drop-wise to the test solution until it turns pink and stays pink with swirling. The number of drops required to complete the titration are counted and recorded. Compare these results with the chart above. A control using make-up water should be titrated and the number of drops of Alkali 3 needed to turn the solution pink should be subtracted from the test solution value.

## STORAGE AND DISPOSAL

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### Storage

This product should be stored in an area where it is not exposed to extreme temperatures. Product may freeze. Swirls and precipitate may occur in frozen material, but readily go into solution when thawed and mixed.

### Disposal

Flush with plenty of water to the sanitary sewer. Dispose of in accordance with local, state and federal regulations.

## SERVICE

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### Sales

Service is one of the most important ways to verify consistent quality of a facility's performance and operation. A tailored service program by STERIS provides effective, trouble-free operation.

### Technical

STERIS is pleased to provide a completely staffed and equipped technical service laboratory capable of performing needed tests and providing both telephone and on-site assistance when needed. More details on how this service can benefit a facility's particular situation can be provided upon request.

## PRECAUTIONS

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Information concerning human and environmental exposure may be reviewed on the Material Safety Data Sheet (MSDS) for the product. For additional information regarding incidents involving human and environmental exposure, call 314-535-1395.

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### For further information, please contact:

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