

# niroklar<sup>®</sup> 77

Acid cleaner for the food industry - Liquid concentrate



## Main fields of application:

Cleaning of production plants, tanks, containers and pipes via automated CIP processes or in circulation processes. Also suitable for manual application.

Cleaning of drums and containers in KEG cleaning plants in breweries and in the beverage industry.

Cleaning of milk collection tank lorries, thorough cleaning of pipes, tanks, cheese racks and cheese moulds and other production plants in the milk industry.

Automated cleaning of food transport crates and containers in cleaning plants.

For professional use only.

## Properties:

niroklar 77 is an acidic detergent based on phosphoric acid and special wetting agents with the following properties

- Reliably solves mineral deposits, such as limescale and boiler scale
- Excellent wetting and emulsifying action
- Infiltrates and emulsifies organic deposits such as fat and protein
- Foam-regulating formula from temperatures of over 40 °C onwards
- Excellent material compatibility
- Suitable for stainless steel, rubber, acid-compatible synthetic materials, aluminium, copper and tin

## Dosage:

**Cleaning of production plants, tanks, containers, pipes and milk collection tank lorries via CIP or circulation processes and cheese racks and moulds:**

Dosage: 0.5 – 1.5 weight% at temperatures of 40 – 80 °C.

### Manual cleaning:

Dosage: 0.2 – 1.0 weight%

### Cleaning of drums and containers in KEG cleaning plants:

When used as single detergent: dosage in the area of 1.0 – 2.5 weight% or within acidic spray zones with multi-step plants 0.5 – 1.5 weight% in a temperature range of 40 – 95 °C.

### Cleaning of food transport crates and containers in cleaning plants:

Dosage: 0.3 – 0.5 weight% at approx. 60 °C. The acid compatibility of the cleaning plant, the items to be washed and the drain pipes must be tested first or the acidic cleaning must be approved of by the plant manufacturer. With heavy soiling the dosage must be adjusted or an alkaline cleaning must be carried out.

To avoid residues on surfaces that can come in contact with food an additional rinsing with drinking water is necessary after every cleaning and disinfection.

Do not mix with other products.

Rinse out dosing system including hose with water before changing product.

The weigomatic<sup>®</sup> dosing systems resp. neomatik<sup>®</sup> dosing devices by Dr. Weigert enable controlled, safe and economical application. We are a specialist company in accordance with the German Water Conservation Act (Wasserhaushaltsgesetz, WHG). Suited to the individual conditions and requirements we plan, install and maintain central and distributed dosing systems.

## Determining concentration:

10 ml of niroklar 77 working solution with the addition of 1 to 2 drops of phenolphthalein solution are titrated with 0.1 N caustic soda to a colour change from colourless to red.



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With the above information, which is appropriate to our current knowledge we describe our product regarding possible safety necessities, but we do not involve any quality description or promise certain properties.

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ml 0.1 N caustic soda solution used x 0.17 = weight% niroklar 77


## Technical data:

Appearance: Clear, colourless liquid  
Density (20 °C): approx. 1.18 g/cm<sup>3</sup>  
pH value (1 % in deionised water, 20 °C): approx. 2.1  
Acid capacity (ml 0.1 N caustic soda solution used in titration of 400 mg of concentrate against phenolphthalein): approx. - 24

## Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:  
< 5 % non-ionic surfactants  
15 - 30 % phosphates

## Storage information:

Always store at a temperature between 0 °C and 30 °C. Usable for 3 years when stored as recommended. Expiry date: refer to the stamp mark on the label after the hourglass symbol 

## Hazard and precautionary statements:

For safety information see Safety Data Sheets. These are available at [www.drweigert.com](http://www.drweigert.com) under the category "Service/Downloads".

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.

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