



Acidic Detergent for the food industry

Liquid concentrate

Fields of application:

- Cleaning of production systems, containers, tanks and lines using automated CIP processes or in circulation processes in the food industry
- Cleaning of reusable transport boxes and containers in cleaning systems
- Cleaning of barrels and containers in keg cleaning systems in breweries and the drinks industry
- Cleaning of milk tankers, deep cleaning of production systems in the milk industry
- Also suitable for manual cleaning

Performance spectrum:

niroklar 77 contains phosphoric acid and surfactants and has the following properties:

- Reliably dissolves mineral deposits such as limescale
- Excellent emulsifying and wetting properties
- Organic deposits such as fats and proteins are infiltrated and dislodged
- Foam-free at 40 °C and above
- Material-preserving adjustment
- Suitable for stainless steel, rubber and acid-resistant plastics and seals
- Light alloys and non-ferrous metals and their alloys as well as iron are resistant only for short exposure times, taking into account the application concentration

Application and Dosage:

- **Cleaning using automated CIP processes or in circulation processes:** The application concentration is 0.5–1.5 per cent by weight, depending on application, degree of soiling and

water hardness, in the temperature range of 40 °C – 80 °C

- **Cleaning of reusable transport boxes and containers:** The application concentration is 0.3–0.5 per cent by weight depending on degree of soiling at approx. 60 °C
- **Manual cleaning:** The application concentration is 0.2–1.0 per cent by weight, depending on degree of soiling and water hardness
- niroklar 77 must not be mixed with active chlorine-containing cleaning solutions
- Acidic and/or oxidative detergents and disinfectants must not be used for long-term use due to the risk of pitting corrosion of stainless steel. The formation of pitting corrosion is facilitated by high chloride amounts in the water, high temperatures and still solutions
- When using niroklar 77 the items to be washed, the cleaning system and the drain pipes must be acid-compatible

General notes on application:

- For professional use only.
- In order to avoid product residues, rinse surfaces with drinking water, especially those that come in contact with food, after each cleaning and disinfection measure.
- Do not mix with other products.
- Rinse out dosing system including suction hose with water before changing product.
- Only dose from the original container.
- Do not use as a concentrate – only as a working solution.
- Please observe the operating instructions given by the manufacturer of the system/device.
- The weigomatic dosing systems resp. neomatic 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:

After adding one to two drops phenolphthalein solution, 10 ml of niroklar 77- solution is titrated with 0.1 N caustic soda (NaOH) until the colour changes from red to colourless

ml of 0.1 N NaOH used x 0,17 = %
(w/w) niroklar 77

Technical data:

Appearance	clear, colorless liquid
pH-value	2.1 (1% in deionised water, 20 °C)
Density	approx. 1.2 g/cm ³ (20 °C)
p-value	approx. - 24 (ml of 0.1 N NaOH used in titration of 400 mg of concentrate against phenolphthalein)

The product specification may contain deviating test parameters. This specification can be obtained on request.


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. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Changes in the colour of the product may occur when storing in factory-sealed trade units. This has no impact on the properties of the product which are relevant for application.

Hazard and precautionary statements:

For safety information see Safety Data Sheets. These are available at 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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