



Acidic Detergent for the food industry

Liquid concentrate

Fields of application:

- Cleaning of production facilities, containers, tanks, and pipes using automated CIP processes or circulation processes in the food industry.
- Especially cleaning of fermentation, storage, and pressurised tanks in the brewing and beverage industry

Performance spectrum:

niroklar® 88 contains phosphoric acid and surfactants and has the following properties:

- Safely removes inorganic soiling (e.g. beer, milk, and water scale)
- Removal of organic coatings such as baker's yeast and light yeast
- Good wetting and emulsifying effect
- Foam-free operation in the cold and hot temperature range
- Has a foam-attenuating effect even with a high degree of soiling and mechanics
- High dirt-carrying capacity
- Excellent stackability
- Suitable for stainless steel, rubber, and acid-resistant plastics and seals
- Light and non-ferrous metals and their alloys as well as iron are resistant only with short exposure times taking into consideration the application concentration

Application and Dosage:

- **Cleaning by means of automated CIP processes or circulation processes:** Depending on the application, degree of soiling, and water hardness, the application concentration is 1.0–4.0% by weight in a temperature range of 10–80°C.
- **Cleaning of fermentation tanks:** For cylindroconical fermentation tanks, pre-

rinse with cold water or 0.3–0.5% caustic soda lye. Then cold cleaning with 1.0–4.0% by weight niroklar® 88 application solution.

- **Cleaning of storage and pressure tanks:** 1.0–2.0 w% in the cold temperature range.
- Cleaning of open fermenting vats: Apply a 2.0–5.0% by weight niroklar® 88 solution directly to the contamination using spraying equipment in the cold temperature range. A temperature of 25–40°C accelerates cleaning.
- niroklar 88 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 88 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. For commercial use only.
- 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. neomatik 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 88-solution is titrated with 0.1 N caustic soda (NaOH) until the colour changes from colourless to red

ml of 0.1 N NaOH used x 0,08 = % (w/w)
niroklar 88

Technical data:

Appearance	Clear, colorless liquid
pH-value	1.5 (1 %ig in deionised water, 20 °C)
Density	approx. 1.4 g/cm ³ (20 °C)
p-value	approx. - 48 (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, phosphonates, polycarboxylates
> 30 % phoshates

Storage information:

Always store at a temperature between -20 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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