

SurTec® 944

Membrane Cleaner

Properties

- liquid
- alkaline
- free of silicates
- free of hard complexing agents
- suited for micro- and ultrafiltration membranes
- suitable for all types of membranes

Application

SurTec 944 is used for rinsing and cleaning of micro- and ultrafiltration modules in case of decreasing efficiency of the membranes.

make-up value: 3 %vol (1-5 %vol)

temperature: room temperature up to 90°C

application time: according to requirements

Technical Specification

(at 20°C)	Appearance	Density (g/ml)	pH-value (at 20 g/l)
SurTec 944	liquid, light yellow to dark orange	1.235 (1.21-1.26)	11.8 (11-12.5)

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 944 regularly.

Sample Preparation

Take a sample at a homogeneously mixed position. Let it cool down to room temperature. If the sample is turbid, let the turbidity settle down and decant or filter the solution.

SurTec 944 – Analysis by Titration

reagents: 0.1 N hydrochloric or sulfuric acid
indicator: methyl orange solution (0.04 %)

procedure: 1. Pipette 10 ml bath sample into a 250 ml Erlenmeyer flask.
2. Dilute to approx. 100 ml with deionised water.
3. Add 3 drops of indicator.
4. Titrate with 0.1 N acid from yellow to red.

calculation: consumption in ml · 0.40 = %vol SurTec 944

Ingredients

- potassium hydroxide
- salts of organic acids
- phosphates
- nonionic surfactants
- anionic surfactants

Stock Keeping

In order to prevent delays in the production process, per 1,000 l bath the following amount should be kept in stock:

SurTec 944 30 kg

Product Safety and Ecology

The safety instructions and the instructions for environmental protection have to be followed in order to avoid hazards for people and environment. The Material Safety Data Sheets (according to European legislation) contain explicit details for this.

The following hazard designations and classifications into water hazard classes (WHC) have to be taken into account:

<u>product</u>	<u>hazard designation</u>	<u>water hazard class</u>
SurTec 944	C - Corrosive	WHC 1

Warranty

We are responsible for our products in the context of the valid legal regulations. The warranty exclusively accesses for the delivered state of a product. Warranties and claims for damages after the subsequent treatment of our products do not exist. For details please consider our [general terms and conditions](#).

Further Information and Contact

In our forum, you can discuss topics of the surface technology:

<http://forum.SurTec.com/>

If you have any questions concerning the process, please contact your local technical department: <http://SurTec.com/International.html>