

Pindaktiivsed ained. Pindaktiivsete ainete lahuste või pihustunud ainete pH väärtuse määramine

Surface active agents - Determination of the pH value of surfactant solutions or dispersions

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1262:2000 sisaldab Euroopa standardi EN 1262:1996 ingliskeelset teksti.

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Descriptors: surfactants, soluble matter, suspensions, pH, measurements

English version

**Surface active agents - Determination of the pH
value of surfactant solutions or dispersions**

Agents de surface - Détermination de la valeur
du pH des solutions ou des dispersions d'agents
de surface

Grenzflächenaktive Stoffe - Messung des
pH-Wertes von Tensidlösungen oder Dispersionen

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 276 "Surface active agents", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 1997, and conflicting national standards shall be withdrawn at the latest by January 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European Standard specifies a method for preparing solutions or dispersions of surface active agents for determining their pH value.

The method is applicable to aqueous environments containing anionic, cationic and non-ionic surfactants, ampholytic surfactants and surfactant-containing products.

2 Definitions

For the purposes of this standard the following definition applies :

active matter : All of the surface active agents responsible for a specified activity in a formulation.

3 Principle

The pH of the sample solution or dispersion is determined by potentiometric measurement using a glass/calomel electrode and commercial pH meter.

4 Reagents

4.1 Water

Use only freshly distilled water from which carbon dioxide has been removed and having a conductivity not exceeding 0,5 mS/m at 25 °C and a pH between 6,5 and 7,0, or water of equivalent purity.

4.2 Standard buffer solutions

Two standard buffer solutions are required to calibrate the pH meter. The pH values of the buffer solutions shall bracket the expected pH of the test solution. Buffer solutions of pH 4,0 and 9,0 are normally suitable.

4.3 Ethanol 96 % (V/V), analytical grade

To determine its suitability, ethanol is mixed with freshly distilled water or water of equivalent purity, in a ratio of 50 : 50 (m/m) ; the pH shall be between 6,5 and 7,0, otherwise a more suitable ethanol grade shall be used.

4.4 Sodium chloride, analytical grade