DIN EN 17841:2024-05 (E)

Chemical used for treatment of water intended for human consumption - Antifouling for membranes - Sulfamic acid

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Description 6
4.1 Identification 6
4.1.1 Chemical name 6
4.1.2 Synonym or common name 6
4.1.3 Relative molecular mass 6
4.1.4 Empirical formula 6
4.1.5 Chemical formula 7
4.1.6 CAS Registry Number 7
4.1.7 EINECS reference 7
4.2 Commercial form 7
4.3 Physical properties 7
4.3.1 Appearance 7
4.3.2 Density 7
4.3.3 Solubility in water 7
4.3.4 Boiling point at 100 kPa 7
4.3.5 Melting point 8
4.3.6 Specific heat 8
4.3.7 Viscosity, dynamic 8
4.3.8 Critical temperature (for gas) 8
4.3.9 Critical pressure (for gas) 8
4.3.10 Physical hardness 8
4.4 Chemical properties 8

5 Purity criteria 8
5.1 General 8
5.2 Composition of commercial product 8
5.3 Impurities and main by-products 8
5.4 Chemical parameters 9

6 Test methods 9
6.1 Sampling 9
6.2 Analyses 9
6.2.1 Sulphamic acide (main product) 9
6.2.2 Impurities 10
6.2.3 Chemical parameters 10

7 Labelling - Transportation - Storage 11
7.1 Means of delivery 11
7.2 Labelling 11
7.3 Transportation and labelling 12
7.4 Marking 12

7.5 Storage 12
7.5.1 General 12
7.5.2 Long term stability 12
7.5.3 Storage incompatibilities 12

Annex A (informative) General information on sulphamic acid 13

A.1 Origin 13

Annex B (informative) Analytical methods - Determination of arsenic, cadmium, chromium, lead, nickel, antimony, mercury and selenium (inductively coupled plasma optical emission spectrometry (ICP/OES)) 14

B.1 General 14
B.2 Principle 14
B.3 Reagents 14
B.4 Apparatus 15
B.5 Procedure 16
B.6 Expression of results 17

Annex C (normative) General rules relating to safety 18

C.1 Rules for safe handling and use 18
C.2 Emergency procedures 18

Bibliography 19