DIN EN 13194:2015-05 (E)

Chemicals used for treatment of water intended for human consumption - Acetic Acid

Contents

Page

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Description 6
3.1 Identification 6
3.1.1 Chemical name 6
3.1.2 Synonym or common name 6
3.1.3 Relative molecular mass 6
3.1.4 Empirical formula 6
3.1.5 Chemical formula 6
3.1.6 CAS Registry Number) 7
3.1.7 EINECS reference) 7
3.2 Commercial form 7
3.3 Physical properties 7
3.3.1 Appearance 7
3.3.2 Density 7
3.3.3 Solubility in water 7
3.3.4 Vapour pressure (at 20 °C) 7
3.3.5 Boiling point at 100 kPa) 7
3.3.6 Melting point 7
3.3.7 Specific heat 7
3.3.8 Viscosity, dynamic 8
3.3.9 Critical temperature (for gas) 8
3.3.10 Critical pressure (for gas) 8
3.3.11 Physical hardness 8
3.4 Chemical properties 8

4 Purity criteria 8
4.1 General 8
4.2 Composition of commercial product 8
4.3 Impurities and main by-products 8
4.4 Chemical parameters 9

5 Test methods 9
5.1 Sampling 9
5.1.1 Relevant Standards 9
5.1.2 Sampling from drums and bottles 9
5.1.3 Sampling from tanks and tankers 10
5.2 Analysis 10
5.2.1 Acetic acid (main product) 10
5.2.2 Impurities 11
5.2.3 Chemical parameters 15

6 Labelling - Transportation - Storage 17
6.1 Means of delivery 17
6.2 Labelling according to the EU legislation) 17

6.3 Transportation regulations and labelling 18
6.4 Marking 19
6.5 Storage 19
6.5.1 General 19
6.5.2 Long term stability 19
6.5.3 Storage incompatibilities 19

Annex A (informative) General information on acetic acid 20

A.1 Origin 20
A.1.1 Raw materials 20
A.1.2 Manufacturing process 20
A.2 Use 20
A.2.1 Function 20
A.2.2 Form in which it is used 20
A.2.3 Treatment dose 20
A.2.4 Means of application 21
A.2.5 Secondary effects 21
A.2.6 Removal of excess product 21

Annex B (normative) General rules relating to safety 22

B.1 Rules for safe handling and use 22
B.2 Emergency procedures 22
B.2.1 First aid 22
B.2.2 Spillage 22
B.2.3 Fire 22

Bibliography 23