DIN EN 15363:2014-08 (E)

Chemicals used for treatment of swimming pool water - Chlorine

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 6
3.1.7 EINECS reference 6
3.1.8 Commercial form 7
3.2 Physical properties 7
3.2.1 Appearance 7
3.2.2 Density 7
3.2.3 Solubility (in water) 7
3.2.4 Vapour pressure 7
3.2.5 Boiling point at 100 kPa 7
3.2.6 Liquefaction point 7
3.2.7 Specific heat 7
3.2.8 Viscosity (dynamic) 7
3.2.9 Critical temperature 8
3.2.10 Critical pressure 8
3.2.11 Physical hardness 8
3.3 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 Toxic substances 8

5 Test methods 9

6 Labelling - Transportation - Storage 9
6.1 Means of delivery 9
6.2 Labelling according to the EU legislation 9
6.3 Transportation regulations and labelling 10
6.4 Marking 10
6.5 Storage 10
6.5.1 General 10
6.5.2 Long term stability 10
6.5.3 Storage incompatibilities 10

Annex A (informative) General information on chlorine 11

A.1 Origin 11
A.1.1 Raw materials 11
A.1.2 Manufacturing process 11
A.2 Use 11
A.2.1 Function 11
A.2.2 Form in which the product is used 11
A.2.3 Treatment dose 11
A.2.4 Means of application 11
A.2.5 Secondary effects 11
A.2.6 Removal of excess product 11

Annex B (normative) General rules relating to safety 12

B.1 Rules for safe handling and use 12
B.2 Emergency procedures 12
B.2.1 General 12
B.2.2 First aid 12
B.2.3 Spillage 12
B.2.4 Fire 12

Bibliography 13