

DIN EN 12931:2015-05 (E)

Chemicals used for treatment of water intended for human consumption - Chemicals for emergency use - Sodium dichloroisocyanurate, anhydrous

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	7
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 and odour	7
3.3.2	Density	7
3.3.3	Solubility in water	7
3.3.4	Vapour pressure	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	8
3.3.10	Critical pressure	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	8
5	Test methods	9
5.1	Sampling	9
5.2	Analysis	9
5.2.1	Determination of available chlorine (main product)	9
5.2.2	Impurities	11
5.2.3	Chemical parameters	13
6	Labelling - Transportation - Storage	16
6.1	Means of delivery	16
6.2	Labelling according to the EU legislation	16
6.3	Transportation regulations and labelling	17
6.4	Marking	17
6.5	Storage	18

6.5.1	Long term stability	18
6.5.2	Storage incompatibilities	18
Annex A (informative) General information on sodium dichloroisocyanurate, anhydrous		19
A.1	Origin	19
A.1.1	Raw materials	19
A.1.2	Manufacturing process	19
A.2	Use	19
A.2.1	Function	19
A.2.2	Form in which it is used	19
A.2.3	Treatment dose	19
A.2.4	Means of application	19
A.2.5	Secondary effects	19
A.2.6	Removal of excess product	20
Annex B (normative) General rules relating to safety		21
B.1	Rules for safe handling and use	21
B.2	Emergency procedures	21
B.2.1	First aid	21
B.2.2	Spillage	21
B.2.3	Fire	22
Annex C (normative) Determination of arsenic, antimony and selenium (atomic absorption spectrometry hydride technique)		23
C.1	General principle	23
C.2	Interferences	23
C.3	Reagents	23
C.4	Apparatus	25
C.5	Procedure	26
C.5.1	Preparation of the apparatus	26
C.5.2	Preparation of calibration solutions	27
C.5.3	Preparation of test solutions and standard solutions	27
C.5.4	Determination of arsenic with sodium borohydride	27
C.5.5	Determination of selenium with sodium borohydride	27
C.5.6	Determination of antimony with sodium borohydride	28
C.6	Calculation	28
Bibliography		29