

DIN EN 12120:2023-03 (E)

Chemicals used for treatment of water intended for human consumption - Sodium hydrogen sulfite

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 commons 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 and odour	7
4.3.2 Density	7
4.3.3 Solubility (in water)	7
4.3.4 Vapour pressure	7
4.3.5 Boiling point at 100 kPa	7
4.3.6 Crystallization point	7
4.3.7 Specific heat	7
4.3.8 Viscosity dynamic	7
4.3.9 Critical temperature	7
4.3.10 Critical pressure	8
4.3.11 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	8
6 Test methods	9
6.1 Sampling	9
6.1.1 General	9
6.1.2 Sampling from drums and bottles	9
6.1.3 Sampling from tanks and tankers	10
6.2 Analyses	10
6.2.1 General	10
6.2.2 Main product	10
6.2.3 Impurities	12
6.2.4 Chemical parameters	12

7	Labelling, transportation, storage	17
7.1	Means of delivery	17
7.2	Labelling	17
7.3	Transportation labelling	17
7.4	Marking	18
7.5	Storage	18
7.5.1	Long term stability	18
7.5.2	Storage incompatibilities	18
Annex A (informative) General information on sodium hydrogen sulfite		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	19
Annex B (normative) General rules relating to safety		20
B.1	Rules for safe handling and use	20
B.2	Emergency procedures	20
B.2.1	First aid	20
B.2.2	Spillage	20
B.2.3	Fire	20
Bibliography		21