

DIN EN 891:2023-05 (E)

Chemicals used for treatment of water intended for human consumption - Iron (III) chloride sulfate

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 names	6
4.1.3	Relative molecular mass	6
4.1.4	Empirical formula	6
4.1.5	Chemical formula	6
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	Vapour pressure	7
4.3.5	Boiling point at 100 kPa	7
4.3.6	Freezing 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	7
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	The grade of the product	8
5.4	The type of the product	9
6	Test methods	9
6.1	Sampling	9
6.2	Analyses	9
7	Labelling - Transportation - Storage	9
7.1	Means of delivery	9
7.2	Risk and safety labelling according to the EU Directives	9
7.3	Transportation regulations and labelling	10
7.4	Marking	11
7.5	Storage	11
7.5.1	Long term stability	11

7.5.2	Storage incompatibilities	11
Annex A (informative) General information on iron (III) chloride sulfate		12
A.1	Origin	12
A.1.1	Raw materials	12
A.1.2	Manufacturing process	12
A.2	Quality of commercial product	12
A.3	Use	14
A.3.1	Function	14
A.3.2	Form in which it is used	14
A.3.3	Treatment dose	14
A.3.4	Means of application	14
A.3.5	Secondary effects	14
A.3.6	Removal of excess product	14
Annex B (normative) General rules relating to safety		15
B.1	Rules for safe handling and use	15
B.2	Emergency procedures	15
B.2.1	First aid	15
B.2.2	Spillage	15
B.2.3	Fire	15
Bibliography		16