

DIN EN 1410:2023-12 (E)

Chemicals used for treatment of water intended for human consumption - Cationic polyacrylamides

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(s)	6
4.1.2	Synonym(s) or common name(s)	6
4.1.3	Relative molecular mass	6
4.1.4	Empirical formula	6
4.1.5	Chemical formulae	7
4.1.6	CAS Registry Numbers	8
4.1.7	EINECS reference	8
4.2	Commercial form	8
5	Physical properties	8
5.1	Appearance	8
5.2	Bulk density	8
5.3	Solubility	9
5.4	Vapour pressure	9
5.5	Boiling point at 100 kPa	9
5.6	Melting point	9
5.7	Specific heat	9
5.8	Viscosity dynamic	9
5.9	Critical temperature	9
5.10	Critical pressure	9
5.11	Physical hardness	9
6	Chemical properties	9
6.1	General	9
6.2	Purity criteria	9
6.2.1	General	9
6.2.2	Impurities and main by-products	10
6.3	Composition of commercial product	10
6.4	Chemical parameters	10
7	Test methods	10
7.1	Sampling	10
7.2	Analyses	10
7.2.1	General	10
7.2.2	Main product	10
7.2.3	Impurity: Residual acrylamide monomer content	11
8	Labelling - transportation - storage	14
8.1	Means of delivery	14

8.2	Labelling according to the EU Legislation	14
8.3	Transportation regulations and labelling	15
8.4	Marking	15
8.5	Storage	15
8.5.1	Long term stability	15
8.5.2	Storage incompatibilities	15
Annex A (informative) General information on cationic polyacrylamides		16
A.1	Origin	16
A.1.1	Raw materials	16
A.1.2	Manufacturing process	16
A.2	Use	16
A.2.1	Function	16
A.2.2	Form in which it is used	17
A.2.3	Treatment dose	17
A.2.4	Means of application	17
A.2.5	Secondary effects	17
A.2.6	Removal of excess product	17
A.3	Rules for safe handling and use	17
A.4	Emergency procedures	18
A.4.1	First aid	18
A.4.2	Spillage	18
A.4.3	Fire	18
Bibliography		19