

DIN EN 1409:2008-04 (E)

Chemicals used for water treatment intended for human consumption - Polyamines

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	Synonyms or common names	6
3.1.3	Relative molecular mass	6
3.1.4	Empirical formula	6
3.1.5	Chemical formulae	7
3.1.6	CAS Registry Numbers	7
3.1.7	EINECS reference	7
3.2	Commercial form	7
3.3	Physical properties	7
3.3.1	Appearance	7
3.3.2	Density	7
3.3.3	Solubility	7
3.3.4	Vapour pressure	8
3.3.5	Boiling point at 100 kPa	8
3.3.6	Freezing point	8
3.3.7	Specific heat	8
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	9
4.3	Impurities and main by-products	9
4.4	Chemical parameters	9
5	Test methods	9
5.1	Sampling	9
5.1.1	General	9
5.1.2	Sampling from drums and bottles	10
5.1.3	Sampling from tanks and tankers	10
5.2	Analyses	10
5.2.1	General	10
5.2.2	Main product	11
5.2.3	Impurities	13
6	Labelling - transportation - storage	20
6.1	Means of delivery	20
6.2	Risk and safety labelling in accordance with the EU Directives	20
6.3	Transportation regulations and labelling	20

6.4	Marking	20
6.5	Storage	20
6.5.1	Long term stability	20
6.5.2	Storage incompatibilities	20
Annex A (informative) General information on polyamines		21
Bibliography		23