

DIN EN 12122:2025-02 (E)

Chemicals used for treatment of water intended for human consumption - Ammonia solution

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 name	6
4.1.3 Relative molecular mass	6
4.1.4 Empirical formula	7
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	7
4.3.4 Vapour pressure	7
4.3.5 Boiling point at 100 kPa	8
4.3.6 Crystallization point	8
4.3.7 Specific heat	8
4.3.8 Viscosity, dynamic	8
4.3.9 Critical temperature	8
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	9
5.3 Impurities and main by-products	9
5.4 Chemical parameters	9
6 Test methods	10
6.1 Sampling	10
6.2 Analyses	10
6.2.1 Main product	10
6.2.2 Impurities	10
6.2.3 Chemical parameters	10
7 Labelling – Transportation – Storage	15
7.1 Means of delivery	15
7.2 Risk and safety labelling	15
7.3 Transportation regulations and labelling	17
7.4 Marking	17

7.5	Storage	17
7.5.1	General	17
7.5.2	Long term stability	17
7.5.3	Storage incompatibilities	17
Annex A (informative) General information on ammonia solution		18
A.1	Origin	18
A.1.1	Raw materials	18
A.1.2	Manufacturing process	18
A.2	Use	18
A.2.1	Function	18
A.2.2	Form in which it is used	18
A.2.3	Treatment dose	18
A.2.4	Means of application	18
A.2.5	Secondary effects	18
A.2.6	Removal of excess product	18
Annex B (informative) General rules relating to safety		19
B.1	Rules for safe handling and use	19
B.2	Emergency procedures	19
B.2.1	First aid	19
B.2.2	Spillage	19
B.2.3	Fire	19
Bibliography		20