

Volume III/7: Crystal Structure Data of Inorganic Compounds

Editors: K.-H. Hellwege and A.M. Hellwege

Authors: W. Pies, A. Weiss. In cooperation with H.-P. Boehm, H.J. Meyer (c3); G. Will (d1 α); G. Pieper (d1 β); R. Allmann (d2)

Part c1: Key Element: N

1978. 35 figs., XXV, 260 pages. ISBN 3-540-08674-9

Contents

Introduction	XI
1 Subject matter	XI
2 Arrangement of the substances	XI
Survey: Distribution of substances within subvolumes III/7a ... III/7h	XII
3 Selection and arrangement of information in the tables	XV
3.1 Selection of information	XV
3.2 Arrangement of information	XVI
3.3 Reference sources	XXI
4 References used in the introduction	XXIII
5 List of space-group symbols for various settings	see volume III/7a, page XXIV
6 List of symbols and abbreviations	XXIV

Tables

VI Compounds with the key element nitrogen	1
VI.1 Ammonia and derivatives including amides, imides, and nitrides	1
VI.1.1 Ammonia, hydroxylamine, hydrazine and amines of metals	1
VI.1.2 Amides	4
VI.1.2.1 Binary amides	4
VI.1.2.2 Ternary amides	7
VI.1.2.3 Amides with additional anions (Cl ⁻ , Br ⁻ , ...)	10
VI.1.3 Hydrazides	12
VI.1.4 Imides	12
VI.1.4.1 Binary and ternary imides	12
VI.1.4.2 Imides with additional anions (Cl ⁻ , Br ⁻ , ...)	13
VI.1.5 Nitrides	14
VI.1.5.1 Binary nitrides and their solid solutions	14
VI.1.5.2 Ternary and polynary nitrides	86
VI.1.5.3 Nitrides with additional anions	113
VI.1.5.3.1 Nitridehydrides, nitride-amides, and nitride-imides	113
VI.1.5.3.2 Nitridefluorides	115
VI.1.5.3.3 Nitridechlorides	117
VI.1.5.3.4 Nitridebromides	120
VI.1.5.3.5 Nitride-iodides	121
VI.1.5.3.6 Oxidenitrides	122
VI.1.5.3.7 Fluoride-oxidenitrides	136
VI.1.5.3.8 Nitrides with OH ⁻ , ClO ₄ ⁻ , S ²⁻ , SO ₄ ²⁻ , Se ²⁻ ... as additional anions	136
VI.2 Azides	140
VI.2.1 Simple azides	140
VI.2.2 Azides with H ₂ O, NH ₃	149
VI.2.3 Azides with Cl ⁻ , O ²⁻ , OH ⁻ , ... as additional anions	151
VI.3 Oxo-compounds of nitrogen	153
VI.3.1 Hyponitrites	153
VI.3.2 Nitrites	154
VI.3.2.1 Binary nitrites and their solid solutions	154
VI.3.2.2 Binary nitrites with H ₂ O, NH ₃	157
VI.3.2.3 Ternary and polynary nitrites	159
VI.3.2.4 Ternary and polynary nitrites with H ₂ O, NH ₃	183
VI.3.2.5 Nitrites with Cl ⁻ , Br ⁻ , ... as additional anions	185

VI.3.2.6 Nitrites with Cl^- , Br^- ,... as additional anions and H_2O , NH_3	186
VI.3.3 Nitrates	188
VI.3.3.1 Binary nitrates and their solid solutions	188
VI.3.3.2 Binary nitrates with H_2O , NH_3 , N_2H_4 ,	212
VI.3.3.3 Ternary and polynary nitrates	222
VI.3.3.4 Ternary and polynary nitrates with H_2O , NH_3	224
VI.3.3.5 Nitrates with additional anions	227
VI.3.3.5.1 Nitrates with halide ions as additional anions	227
VI.3.3.5.2 Nitrates with O^{2-} as additional anion	229
VI.3.3.5.3 Nitrates with OH^- as additional anion	234
VI.3.3.5.3.1 Nitrates with OH^- as additional anion (without H_2O , ...)	234
VI.3.3.5.3.2 Nitrates with OH^- as additional anion and H_2O	239
VI.3.3.5.4 Nitrates with ClO_2^- , S^{2-} , SO_4^{2-} , Te^{2-} , NH_2^- , NO_2^- , ... as additional anions	244
VI.3.4 Compounds with nitrosyl groups	248
VI.4 Further nitrogen compounds (in particular cyclic sulfur-nitrogen compounds)	252

References for III/7

subvolume III/7g

Over-all list of contents of volume III/7

subvolume III/7h

Alphabetical formula index

subvolume III/7h

Alphabetical mineral name index

subvolume III/7h