

Landolt-Börnstein

Numerical Data and Functional Relationships in Science and Technology

New Series / Editor in Chief: W. Martienssen

Group III: Solid State Physics

Volume 27

Magnetic Properties of Non-Metallic Inorganic Compounds Based on Transition Elements

Subvolume J 2

Halides II

Editor: H.P.J. Wijn

Authors: A. Chelkowski and H.P.J. Wijn



Springer

Table of contents

Magnetic properties of non-metallic inorganic compounds based on transition elements

Subvolume j2: Halides II

9	Magnetic properties of halides	1
9.1	MX_2 and $\text{MX}_2 \cdot n\text{H}_2\text{O}$ compounds (K. KATSUMATA)	see subvolume III/27j1
9.2	$\text{M}_{1-x}\text{M}'_x\text{X}_2$ and $\text{M}_{1-x}\text{M}'_x\text{X}_2 \cdot n\text{H}_2\text{O}$ compounds (K. KATSUMATA)	see subvolume III/27j1
9.3	MX_3 compounds (K. KATSUMATA)	see subvolume III/27j1
9.4	$\text{MCl}_2\text{-GIC}$; $\text{MCl}_3\text{-GIC}$ (M. HAGIWARA *), M. MATSUURA)	see subvolume III/27j1
9.5	$\text{MM}'\text{F}_5$ and $\text{MM}'\text{F}_5 \cdot n\text{H}_2\text{O}$ compounds (H.P.J. WIJN)	see subvolume III/27j1
9.6	AMX_3 and $\text{AMX}_3 \cdot 2\text{H}_2\text{O}$ compounds (A, M = metal, X = halogen element) (A. CHELKOWSKI)	1
9.6.0	Introduction	1
9.6.0.1	General remarks	1
9.6.0.2	List of frequently used symbols and abbreviations	2
9.6.1	Table	7
9.6.2	Figures	56
9.6.3	References for 9.6 and 9.9	247
9.7	AMF_4 and $\text{AMF}_4 \cdot \text{H}_2\text{O}$ compounds (A = alkali element, Tl or NH_4 , M = 3d element) (H.P.J. WIJN)	259
9.7.1	AMF_4 compounds	259
9.7.2	$\text{AMF}_4 \cdot \text{H}_2\text{O}$ compounds	275
9.7.3	References for 9.7	280
9.8	A_2MX_5 and $\text{A}_2\text{MX}_5 \cdot \text{H}_2\text{O}$ compounds (A = Li, Na, K, Rb, Cs, Tl, NH_4 ; M = 3d element; X = F, Cl, Br) (A. CHELKOWSKI, H.P.J. WIJN)	282
9.8.1	Introduction	282
9.8.2	A_2MX_5 compounds	282
9.8.2.1	Crystallographic properties of A_2MX_5 compounds	282
9.8.2.2	Magnetic properties of A_2MF_5 compounds	284

*) The author's name (M. Hagiwara) has been unintentionally omitted in subvolume III/27j1.
Address: Dr. M. Hagiwara, Department of Electronics and Information Science, Kyoto Institute of
Technology, Matsugasaki, Kyoto 606, Japan.

9.8.3	$A_2MX_5 \cdot H_2O$ compounds	296
9.8.3.1	Crystallographic properties of $A_2MX_5 \cdot H_2O$ compounds	296
9.8.3.2	Magnetic properties of $A_2MX_5 \cdot H_2O$ compounds	296
9.8.4	References for 9.8	318
9.9	$A_2MM'X_6$ compounds (A, M, M' = metal, X = halogen element) (A. CHELKOWSKI)	321
9.9.0	Introduction	321
9.9.1	Table	322
9.9.2	Figures	326
9.10	$A_2M^{2+}M^{3+}F_7$ compounds (A = Na, Ag; M = 3d element, Mg, Al or In) (H.P.J. WIJN)	337
9.10.1	Introduction	337
9.10.2	Crystallographic properties of $A_2M^{2+}M^{3+}F_7$ compounds	337
9.10.3	Magnetic properties of $A_2M^{2+}M^{3+}F_7$ compounds	340
9.10.4	References for 9.10	350
9.11	$A_5M_3F_{14}$ compounds (A = Na, K or Ag; M = 3d element or Al) (H.P.J. WIJN)	351
9.11.1	Crystallographic properties of $A_5M_3F_{14}$ compounds	351
9.11.2	Magnetic properties of $A_5M_3F_{14}$ compounds	352
9.11.3	References for 9.11	359