

Table of contents

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

Subvolume I 6a: Tectosilicates – Part 1

	List of frequently used symbols and abbreviations.	XII
	Symbols	XII
	Abbreviations.	XV
	Definitions, units, and conversion factors.	XVIII
8	Magnetic and related properties of silicates and phosphates	
8.1	Silicates (E. BURZO)	
8.1.1	Orthosilicates	see subvolume III/2711
8.1.2	Sorosilicates.	see subvolume III/2712
8.1.3	Cyclosilicates	see subvolume III/2713
8.1.4	Inosilicates	see subvolume III/2714
8.1.5	Phyllosilicates	see subvolume III/2715
8.1.6	Tectosilicates	
8.1.6.1	Kalsilite, nepheline, carnegieite, and related silicates	1
8.1.6.1.1	Crystal structures and lattice parameters	1
8.1.6.1.2	Neutron diffraction data	21
8.1.6.1.3	Nuclear gamma resonance (NGR) data	21
8.1.6.1.4	Nuclear magnetic resonance (NMR) data	21
8.1.6.1.5	Electron paramagnetic resonance (EPR) data	24
8.1.6.1.6	Heat capacity	24
8.1.6.1.7	Electrical conductivity data	25
8.1.6.1.8	Optical properties	26
	Tables and Figures	29
	References for 8.1.6.1	96
8.1.6.2	Liselite, banalsite, stronalsite	103
8.1.6.2.1	Crystal structure and lattice parameters	103
8.1.6.2.2	Refractive indices	104
	Tables and Figures	105
	References for 8.1.6.2	112

8.1.6.3	Feldspars	113
8.1.6.3.1	Introduction	113
8.1.6.3.2	Crystal structures and lattice parameters	114
8.1.6.3.3	Magnetic properties	173
8.1.6.3.4	Cyclotron resonance	174
8.1.6.3.5	Nuclear magnetic resonance (NMR) data	174
8.1.6.3.6	Electron paramagnetic resonance (EPR) data	183
8.1.6.3.7	Specific heat	189
8.1.6.3.8	Electrical properties	192
8.1.6.3.9	Dielectric properties	192
8.1.6.3.10	Refractive indices	193
8.1.6.3.11	Infrared and Raman spectroscopy	194
8.1.6.3.12	Luminescence properties	203
	Tables and Figures	222
	References for 8.1.6.3	385
8.1.6.4	Sodalite, cancrinite, and leifite groups of silicates	417
8.1.6.4.1	General	417
8.1.6.4.2	Sodalite group of silicates	419
8.1.6.4.2.1	Crystal structures	419
8.1.6.4.2.2	Magnetic properties	449
8.1.6.4.2.3	Nuclear gamma resonance (NGR) data	454
8.1.6.4.2.4	Electron paramagnetic resonance (EPR) data	455
8.1.6.4.2.5	Nuclear magnetic resonance (NMR) data	460
8.1.6.4.2.6	Electrical conductivity	471
8.1.6.4.2.7	Dielectric properties	472
8.1.6.4.2.8	Specific heat	472
8.1.6.4.2.9	Infrared and Raman spectra	472
8.1.6.4.2.10	Optical properties	478
8.1.6.4.3	Cancrinite group of silicates	487
8.1.6.4.3.1	Crystal structures	487
8.1.6.4.3.2	Magnetic properties	495
8.1.6.4.3.3	Nuclear magnetic resonance (NMR) data	495
8.1.6.4.3.4	Electron paramagnetic resonance (EPR) data	497
8.1.6.4.3.5	Electrical resistivity data	497
8.1.6.4.3.6	Calorimetric data	497
8.1.6.4.3.7	Dielectric and piezoelectric properties	498
8.1.6.4.3.8	Optical properties	498
8.1.6.4.4	Cancrinites with more complex layer sequences	502
8.1.6.4.4.1	Crystal structures	502
8.1.6.4.4.2	Infrared spectra	505
8.1.6.4.5	Leifite group	505
	Tables and Figures	507
	References for 8.1.6.4	666
8.1.6.5	Scapolites	684
8.1.6.5.1	General	684
8.1.6.5.2	Crystal structure and lattice parameters	684
8.1.6.5.3	Nuclear magnetic resonance (NMR) data	690
8.1.6.5.4	Electron paramagnetic resonance (EPR) data	691
8.1.6.5.5	Thermal properties	692
8.1.6.5.6	Dielectric properties	692
8.1.6.5.7	Infrared spectra and refractive indices	692
8.1.6.5.8	Luminescence properties	692

Tables and Figures	695
References for 8.1.6.5	723
Survey of Volume III/27	726