

Molybdenum (V) Phosphates : Structural Relationships and classification

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0. ABSTRACT

The structural relationships of eighteen Mo(V) phosphates are presented. The specific geometry of the Mo^VO₆ octahedra is discussed. A classification of these phosphates into three families, involving isolated MoO₆ octahedra, [MoO₃]_∞ octahedral chains, and isolated Mo₂O₁₀ units, is proposed. This review suggests that, owing to the great adaptability of MoO₆ octahedra and PO₄ tetrahedra, the chemistry of Mo(V) phosphates promises to reveal a host of interesting structural features.