

# Phase Polymorphism of $[\text{Mn}(\text{DMSO})_6](\text{ClO}_4)_2$ Studied by Differential Scanning Calorimetry

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Six solid phases of  $[\text{Mn}(\text{DMSO})_6](\text{ClO}_4)_2$  have been detected by differential scanning calorimetry. The phase transitions were found between the following solid phases: stable KIc  $\leftrightarrow$  stable KIb at  $T_{\text{C}5} = 225$  K, metastable KIII  $\leftrightarrow$  metastable KII at  $T_{\text{C}4} = 322$  K, stable KIb  $\rightarrow$  stable KIa at  $T_{\text{C}3} = 365$  K, metastable KII  $\leftrightarrow$  overcooled K0 at  $T_{\text{C}2} = 376$  K and stable KIa  $\rightarrow$  stable K0 at  $T_{\text{C}1} = 379$  K. The title compound melts at  $T_{\text{m}} = 488$  K.

*Key words:* Hexadimethylsulphoxidemanganese(II) Chlorate(VII); Phase Transitions;  
Melting Point; DSC.