

property: density, heat capacity, thermodynamic data

$$d_{\text{calc}} \quad 5.026 \text{ g cm}^{-3}$$

heat capacity

thermodynamic data
$$\Delta H_{\text{f}}^0 \quad -124.64 \text{ kcal mol}^{-1}$$

43K

$$\Delta S_f^0 \quad -43.9 \text{ cal K}^{-1} \text{ mol}^{-1}$$
$$\Delta G_f^0 \quad -110.54 \text{ kcal mol}^{-1}$$

For the equilibrium $4 \text{ MnO}_2 \leftrightarrow 2 \text{ Mn}_2\text{O}_3 + \text{O}_2$;

$$-4.5756 \log p_{\text{O}_2} = 37870/T - 51.28 \quad (T = 441 \dots 642^\circ\text{C}) \quad p \text{ in atm}$$

650

β -MnO₂ usually made by controlled pyrolysis of Mn(NO₃)₂ [64W].

References:

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