

Enthalpy of formation of Mn-Zr (manganese-zirconium) system

Thermodynamics

The standard enthalpy of formation of Mn_2Zr has been calculated from results of vapour pressure measurements (Smetana et al. [70Sme]). The value obtained amounts to

$$\Delta H_{298}^{\text{S}} = -16.33\text{kJg} \pm 5\text{kJg} - \text{atom}^{-1}.$$

whereas Flandorfer et al. [97Fla] recommend the value

$$\Delta H_{298}^{\text{S}} = -40\text{kJg} - \text{atom}^{-1}.$$

Symbols and abbreviations

Short form	Full form
ΔH^{S}	integral enthalpy of formation of a solid alloy

References

- [70Sme] Smetana, F., Entner, P., Neckel, A.: Monatshefte f. Chem. **101** (1970) 956
 [97Fla] Flandorfer, H., Gröbner, J., Stamou, A., Hassiotis, N., Saccone, A., Rogl, P., Wouters, R., Seifert, H., Maccio, D., Ferro, R., Haidemenopoulos, G., Delaey, L., Effenberg, G.: Z. Metallkde. **88** (1997) 529