Ca-Zn (Calcium-Zinc)

H. Okamoto

The Ca-Zn phase diagram in [Massalski2] was as assessed by [1990Itk] mainly based on the extensive DTA work done by [1963Mes]. Ca_7Zn_4 and $\text{Ca}_7\text{Zn}_{20}$ were modified to Ca_5Zn_3 and CaZn_3 , respectively, based on later reports on crystal structures. No experimental phase diagrams have been reported on this system after [1990Itk]. Nevertheless, [1990Itk], [2001Bru], [2008Spe], and [2009Was] thermodynamically assessed the data of [1963Mes]. All calculated phase diagrams are in good agreement with the data of [1963Mes]. Figure 1 shows the most recent result of [2009Was].

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Fig. 1 Ca-Zn phase diagram from [2009Was]