F-K (Fluorine-Potassium)

H. Okamoto

The partial K-F phase diagram (0 to 50 at.% F) in [Massalski2] was redrawn from [Moffatt]. Figure 1 shows the complete K-F phase diagram for $P = 3$ bar calculated by [2006Zha]. The isobar line for $P = 1$ bar is shown with dotted lines. The phase boundary data used in the thermodynamic model were the same as those used in [Massalski2]. Therefore, the phase equilibria for condensed phases in Fig. 1 are in good agreement with [Massalski2].

Reference

2006Zha: S. Zhang, C. Brubaker, C. Jiang, M. Yang, Y. Zhong, Q. Han, and Z.K. Liu, A Combined First-Principles Calculation and Thermodynamic Modeling of the F-K-Na System, *Mater. Sci. Eng. A*, 2006, **418**, p 161-171

Fig. 1 K-F phase diagram, from [2006Zha]