

F-Li (Fluorine-Lithium)

H. Okamoto

The Li-F phase diagram was unknown in [Massalski2]. Figure 1 shows the Li-F phase diagram obtained by means of thermal analysis (cooling curves) by [1962Dwo]. Table 1 shows Li-F crystal structure data.

Reference

1962Dwo: A.S. Dworkin, H.R. Bronstein, and M.A. Bredig, Miscibility of Metals with Salts.VI. Lithium-Lithium Halide Systems, *J. Phys. Chem.*, 1962, **66**, p 572-573

Table 1 Li-F crystal structure data

Phase	Composition, at.% F	Pearson symbol	Space group	Strukturbericht designation	Prototype
(β Li) (a)	0	<i>cI2</i>	<i>Im$\bar{3}m$</i>	<i>A2</i>	W
LiF	50	<i>cF8</i>	<i>Fm$\bar{3}m$</i>	<i>B1</i>	NaCl

(a) Not shown in Fig. 1.

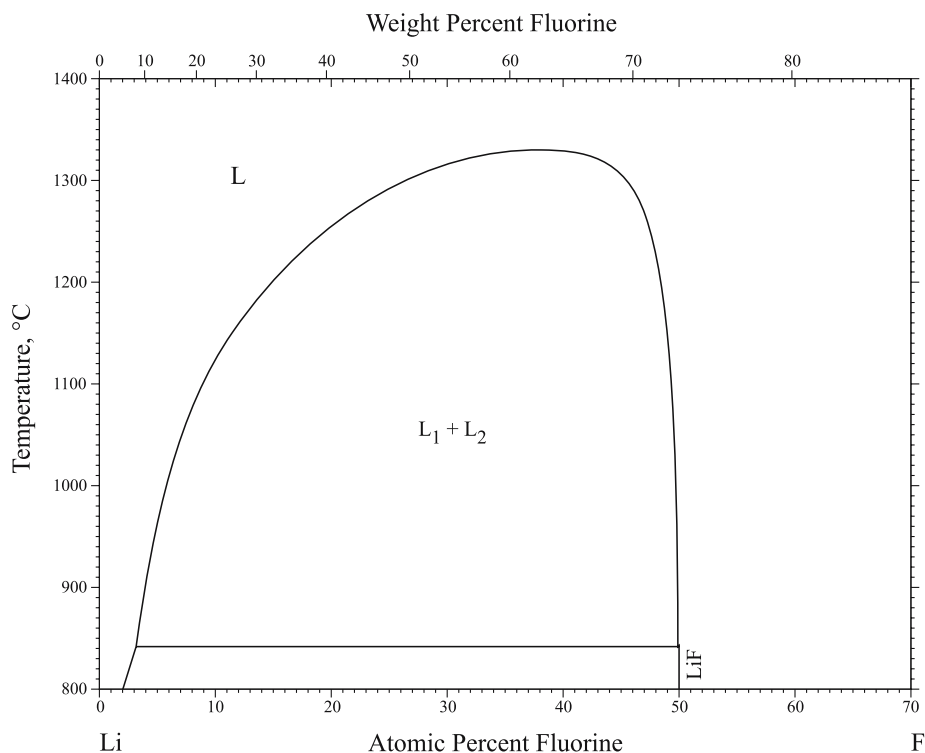


Fig. 1 F-Li phase diagram