

## Au – F (Gold – Fluorine)

### Phase diagram

The phase equilibria are not known.

### Crystal structure

The crystallographic data of intermediate compounds are given in Table 1.

**Table 1. Au–F.** Structure of intermediate phases taken from [Massalski] and [Pearson].

Phase	Structure	Lattice parameters [nm]		Reference
		<i>a</i>	<i>c</i>	
AuF <sub>3</sub> AuF <sub>5</sub>	hex	0.5149	1.626	[67 Ein] [64 Asp]

### References

- [64 Asp] Asprey, L.B., Kruse, F.H., Jack, K.H., Maitlang, R.: Inorg. Chem. **3** (1964) 602  
[67 Ein] Einstein, F.W.B., Rao, P.R., Trotter, J., Bartlett, N.: J. Chem. Soc. A, Part I, (1967) 478  
[Massalski] Massalski, T.B., (ed.): “Binary Alloy Phase Diagrams”, Second Edition, The Materials Information Society, ASM International, Materials Park, Ohio (1992)  
[Pearson] Pearson, W.B.: “Handbook of Lattice Spacings and Structure of Metals and Alloys”, Pergamon Press, New York, (1958), Vol. 1, (1967) Vol. 2