

## Am – Sb (Americium – Antimony)

### Crystal structure

Three intermediate phases have been found in this system. The crystal data are given in Table 1.

**Table 1. Am–Sb.** Crystallographic data of intermediate phases in the Am-Sb – system (taken from [Massalski] and [Pearson]).

Phase	Structure	Prototype	Lattice parameters [nm]		
			<i>a</i>	<i>b</i>	<i>c</i>
Am <sub>4</sub> Sb <sub>3</sub>	cub	anti-Th <sub>3</sub> P <sub>4</sub>	0.92403		
AmSb <sub>2</sub>	ort	Sb <sub>2</sub> Sm	0.618	0.605	1.759
AmSb	cub	NaCl	0.6240		

### References

- [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