

## Am – H (Americium – Hydrogen)

### Crystal structure

Details of the crystallographic structure of the intermediate compounds are given in Table 1.

**Table 1. Am–H.** Crystallographic data of compounds in the Am-H – system (taken from [Pearson], [Massalski]).

Phase	Structure	Prototype	Lattice parameters [nm]	
			<i>a</i>	<i>c</i>
AmH <sub>2</sub>	cub	CaF <sub>2</sub>	0.5340	
AmH <sub>3</sub>	hex	AsNa <sub>3</sub>	0.377	0.675

### 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