

As – Th (Arsenic – Thorium)

Crystal structure

Structure and lattice constants of intermediate phases are given in Table 1.

Table 1. As–Th. Structure and lattice constants of intermediate phases.

Phase	Structure	Prototype	Lattice parameters [nm]			Reference
			<i>a</i>	<i>b</i>	<i>c</i>	
AsTh	cub	CsCl	0.345			[88 Ger]
Stable > 18 GPa						
AsTh	cub	NaCl	0.5978			[88 Ger]
Stable < 18 GPa						
As ₂ Th	ort	Co ₂ Si	0.7287	0.4002	0.9784	[66 Hul]
Stable < 1373 K						
As ₂ Th	tet	Cu ₂ Sb	0.4086		0.8575	[55 Fer]
As ₄ Th ₃	cub	P ₄ Th ₃	0.84383			[65 Pri]

References

- [55 Fer] Ferro, R.: Acta Cryst. **8** (1955) 360
 [65 Pri] Price, B.C., Warren I.H.: J. Electrochem. Soc., New York **112** (1965) 510
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 [88 Ger] Gerward, L., Olsen J.S., Benedict, U., Debos, S., Luo, H., Itié, J.P., Vogt, O.: High-Temp. – High-Press. **20** (1988) 545