

As – Ti (Arsenic – Titanium)

Crystal structure

Crystallographic data of intermediate compounds are given in Table 1.

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

Phase	Structure	Prototype	Lattice parameters [nm]			Reference
			<i>a</i>	<i>b</i>	<i>c</i>	
AsTi	hex	NiAs	0.3645			[65 Bol1]
AsTi ₃	tet	PTi ₃	1.01618		0.51098	[77 Ber]
As ₂ Ti	ort	Sb ₂ Zr	1.327	0.896	0.350	[64 Wen]
As ₃ Ti ₄	cub	P ₄ Th ₃	0.76795			[77 Ber]
As ₃ Ti ₅	hex	Mn ₅ Si ₃	0.7400		0.5215	[65 Bol2]
As ₃ Ti ₅	ort	Sb ₃ Yb ₅	0.3550	0.77363	0.67232	[77 Ber]

References

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 [65 Bol 1] Boller, H., Nowotny, H.: Monatshefte Chem. **96** (1965) 852
 [65 Bol 2] Boller, H., Nowotny, H.: Monatshefte Chem. **96** (1965) 565
 [77 Ber] Berger, R.: Acta Chem. Scand. A **31A** (1977) 514