

As – V (Arsenic – Vanadium)

Crystal structure

Crystallographic data of intermediate compounds are given in Table 1.

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

Phase	Structure	Prototype	Lattice parameters [nm]			Reference
			<i>a</i>	<i>b</i>	<i>c</i>	
As ₂ V	mon	Ge ₂ Os	0.905	0.327	0.746	[65 Mei]
		NbSb ₂	0.9059	$\beta = 120.2^\circ$ 0.3272	0.7481	[64 Hul]
AsV	ort	CoAs	0.5850	$\beta = 119.78^\circ$ 0.62923	0.33618	[72 Sel]
		MnP	0.5850	0.3364	0.293	[73 Sel]
α -As ₃ V ₄	ort	As ₃ Nb ₄	0.3420	1.373	1.812	[72 Yvo]
β -As ₃ V ₄	mon	As ₂ V ₃	1.3725	0.3393	0.9230	[74 Ber]
				$\beta = 100.52^\circ$		
As ₂ V ₃	tet	As ₂ V ₃	0.94128		0.33361	[77 Ber]
α -As ₃ V ₅	tet	W ₅ Si ₃	0.95031		0.48255	[77 Ber]
β -As ₃ V ₅	ort					
γ -As ₃ V ₅	ort	Sb ₃ Yb ₅	0.6437	0.7673	0.9280	[75 Ber]
AsV ₂	hex		0.76519		0.33584	[75 Ber]
AsV ₃	cub	Cr ₃ Si	0.475			[55 Bac]

References

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