

As – Ca (Arsenic – Calcium)

Phase diagram

The phase diagram is not known. Several intermediate phases have been detected. Their crystallographic data are collected in Table 1.

Table 1. As–Ca. Intermediate phases in the As–Ca system.

Phase	Concentration [at% Ca]	Structure	Prototype	Lattice parameters [nm]			Reference
				<i>a</i>	<i>b</i>	<i>c</i>	
As ₄ Ca	20	tri	CaP ₃	0.5854	0.5832	0.5901	[76 Bri]
As ₃ Ca	25			$\alpha = 70.3^\circ$	$\beta = 80.3^\circ$	$\gamma = 75.7^\circ$	
As ₃ Ca ₂	40	mon	As ₃ Ca ₂	1.1985	0.5806	1.8314	[76 Del]
					$\beta = 131.63^\circ$		
AsCa	50	hex	NaO	0.7844		0.5917	[76 L'Ha]
As ₃ Ca ₅	62.5	hex	Mn ₅ Si ₃	0.843		0.675	[75 Hüt]
AsCa ₂	66.7	tet	La ₂ Sb	0.463		1.556	[74 Hüt]

References

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