

Au – Ba (Gold – Barium)

Crystal structure

In a short discussion Alcock et al. [92 Alc] have mentioned that the phase diagram of this system is not available, but several intermediate phases have been investigated. The results are given in Table 1.

Table 1. Au–Ba. Crystal structure and lattice parameters of intermediate phases taken from [Massalski] and [Pearson].

Phase	Structure	Prototype	Lattice parameters [nm]			Reference
			<i>a</i>	<i>b</i>	<i>c</i>	
AuBa	ort	BFe	0.8338	0.4925	0.6390	[85 For2]
Au ₂ Ba	hex	AlB ₂	0.4804		0.4119	[70 Bru]
Au ₂ Ba ₃	hex	Er ₃ Ni ₂	1.0001		1.9143	[85 For1]
Au ₅ Ba	hex	CaCu ₅	0.5690		0.4542	[67 Pal]

References

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