

substance: (transition metal)(V)₂ compounds

property: interatomic distances in marcasite- and loellingite-type transition element dipnictides

(T – 2T and X – 2X = c) (RT values)

d ⁿ	Compound	T–4X [Å]	T–2X [Å]	T–2T [Å]	X–X [Å]	Ref.
d ⁶	NiAs ₂ (h)	2.345	2.394	3.545	2.447	79K
		2.341	2.392	3.545	2.464	68H
	NiSb ₂	2.538	2.569	3.841	2.883	79K
		2.55	2.56	3.841	2.86	68H
d ⁶ , d ⁴	Fe _{0.5} Ni _{0.5} As ₂	2.367	2.379	3.108	2.475	79K
	Fe _{0.5} Ni _{0.5} Sb ₂	2.568	2.572	3.386	2.859	79K
d ⁴	FeP ₂	2.29	2.20	2.724	2.27	68H
		2.264	2.248	2.723	2.237	69D
	FeAs ₂	2.362	2.387	2.882	2.492	79K
	FeSb ₂	2.575	2.597	3.197	2.894	79K, 68H
	RuP ₂	2.371	2.347	2.871	2.234	77K
	RuAs ₂	2.468	2.448	2.969	2.475	77K
	RuSb ₂	2.648	2.628	3.179	2.863	77K
	OsP ₂	2.656	2.618	3.180	2.86	68H
		2.376	2.350	2.918	2.248	77K
		2.477	2.452	3.013	2.469	77K
		2.639	2.644	3.211	2.889	77K
		2.717	2.712	3.272	2.833	79K
d ²	CrSb ₂	2.717	2.712	3.272	2.833	79K

References:

- 68H Holseth, H., Kjekshus, A.: Acta Chem. Scand. 22 (1968) 3284.
69D Dahl, E.: Acta Chem. Scand. 23 (1969) 2677.
77K Kjekshus, A., Rakke, T., Andresen, A. F.: Acta Chem. Scand. A31 (1977) 253.
79K Kjekshus, A., Peterzens, P. O., Rakke, T., Andresen, A. F.: Acta Chem. Scand. A33 (1979) 469.