substance: Ru_2Si_3
property: space group, lattice parameters, density: room temperature modification

space group D_{2h}^{14} – Pbcn, $Z = 8$.

a [Å]	*b* [Å]	*c* [Å]	d_X [g cm^{-3}]	Ref.
11.057	8.934	5.533	6.96	74P
11.060	8.952	5.530	6.95	74I

coordination distances, room temperature modification

Distances in Å, from [74P].

(Ru – Si < 2.99 Å, Si – Si < 2.95 Å, Ru – Ru < 3.5 Å)

Ru(1) –	X(2)	2.375	X(1) –	Ru(3)	2.326
	X(3)	2.418		Ru(2)	2.379
	X(3)	2.428		Ru (1)	2.477
	X(1)	2.477		Ru(1)	2.512
	X(1)	2.512		Ru(2)	2.711
	X(2)	2.517		X(2)	2.659
	X(2)	2.519		X(1)	2.766
	Ru(3)	2.968		X(2)	2.859
	2Ru(1)	2.991	X(2) –	Ru(2)	2.334
	Ru(2)	3.011		Ru(1)	2.375
Ru(2) –	2X(2)	2.334		Ru(1)	2.517
	2X(1)	2.379		Ru(1)	2.519
	2X(2)	2.715		Ru(2)	2.715
	2X(1)	2.711		X(1)	2.659
	2Ru(2)	2.882		X(3)	2.689
	2Ru(1)	3.011		X(3)	2.784
Ru(3) –	2X(3)	2.319		X(1)	2.859
	2X(1)	2.326	X(3) –	Ru(3)	2.319
	2X(3)	2.490		Ru(1)	2.418
	2Ru(1)	2.968		Ru(1)	2.428
	2Ru(3)	3.072		Ru(3)	2.490
				X(2)	2.689
				X(2)	2.784

References:

74I Israiloff, P., Völlenkle, H.: Monatsh. Chem. 105 (1974) 1313.
74P Poutcharovsky, D. J., Parthé, F.: Acta Crystallogr. B30 (1974) 2692.