

substance: Ru₂Ge₃

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

space group D_{2h}¹⁴ – Pbcn, Z = 8.

<i>a</i> [Å]	<i>b</i> [Å]	<i>c</i> [Å]	<i>d</i> _X [g cm ⁻³]	Ref.
11.436	9.238	5.716	9.23	74P
11.436	9.240	5.718		74V

coordination distances, room temperature modification

Distances in Å, from [74P].

(Ru – Ge < 3.08 Å, Ge – Ge < 3.02 Å, Ru – Ru < 3.5 Å)

Ru(1) –	X(2)	2.424	X(1) –	Ru(3)	2.417
	X(3)	2.495		Ru(2)	2.443
	X(3)	2.516		Ru (1)	2.550
	X(1)	2.550		Ru(1)	2.557
	X(1)	2.557		Ru(2)	2.910
	X(2)	2.598		X(2)	2.817
	X(2)	2.664		X(1)	2.992
	Ru(3)	3.076		X(2)	2.991
	2Ru(1)	3.087	X(2) –	Ru(2)	2.416
	Ru(2)	3.111		Ru(1)	2.424
Ru(2) –	2X(2)	2.416		Ru(1)	2.598
	2X(1)	2.443		Ru(1)	2.664
	2X(2)	2.757		Ru(2)	2.757
	2X(1)	2.910		X(1)	2.817
	2Ru(2)	2.990		X(3)	2.837
	2Ru(1)	3.111		X(3)	2.887
Ru(3) –	2X(3)	2.383	X(3) –	X(1)	2.991
	2X(1)	2.417		Ru(3)	2.383
	2X(3)	2.557		Ru(1)	2.495
	2Ru(1)	3.076		Ru(1)	2.516
	2Ru(3)	3.152		Ru(3)	2.557
				X(2)	2.837
				X(2)	2.887

lattice parameters, high temperature modification (800°C)

<i>a</i> [Å]	<i>c</i> [Å]	Ref.
5.739	9.952	75P

References:

- 74P Poutcharovsky, D. J., Parthé, F.: Acta Crystallogr. B30 (1974) 2692.
- 74V Völlenkle, H.: Monatsh. Chem. 105 (1974) 1217.
- 75P Poutcharovsky, D. J., Yvon, K., Parthé, F.: J. Less-Common Met. 40 (1975) 139.