

Table I-4. Ionic radii (\AA) for six-fold coordination.

Z	z	r	Z	z	r	Z	z	r	Z	z	r
Ac-89	3	1.12		3L	0.54	Ni-28	2	0.69A		4	0.37A
Ag-47	1	1.15	Dy-66	2	1.07		3L	0.56		6	0.29A
	2	0.94		3	0.91A		3H	0.6	Sb-51	-3	2.45P
	3	0.75	Er-68	3	0.89A		4L	0.48		3	0.76A
Al-13	3	0.54	Eu-63	2	1.17	Np-93	2	1.1		5	0.6
Am-95	3	0.98		3	0.95		3	1.01	Sc-21	3	0.75
	4	0.85	F-9	-1	1.33A		4	0.87	Se-34	-2	1.98P
As-33	-3	2.22P		7	0.08A		5	0.75		4	0.50A
	3	0.58A	Fe-26	2L	0.61		6	0.72		6	0.42A
	5	0.46A		2H	0.78	O-8	-2	1.40A	Si-14	-4	2.71P
At-85	7	0.62A		3L	0.55		6	0.10A		4	0.4
Au-79	1	1.2a		3H	0.65A	OH	-1	1.37	Sm-62	3	0.96
	3	0.7a	Fr-87	1	1.80A	Os-76	4	0.63	Sn-50	-4	2.94P
	5	0.57	Ga-31	3	0.62A		5	0.58		2	0.93A
B-5	3	0.27	Gd-64	3	0.94		6	0.55		4	0.69
Ba-56	2	1.35A	Ge-32	-4	2.72P		7	0.53	Sr-38	2	1.18
Be-4	2	0.45		2	0.73A	P-15	-3	2.12P	Ta-73	3	0.72
Bi-83	3	1.03		4	0.53A		3	0.44A		4	0.68
	5	0.72a	Hf-72	4	0.71		5	0.34A		5	0.64
Bk-97	3	0.96	Hg-80	1	1.19	Pa-91	3	1.04	Tb-65	3	0.92A
	4	0.83		2	1.02		4	0.9		4	0.76
Br-35	-1	1.96P	Ho-67	3	0.90A		5	0.78	Tc-43	4	0.63a
	5	0.47A	I-53	-1	2.2	Pb-82	2	1.19A		5	0.6
	7	0.39A		5	0.62A		4	0.78		7	0.56A
C-6	-4	2.60P		7	0.53	Pd-46	2	0.86	Te-52	-2	2.21P
	4	0.16A	In-49	3	0.80A		3	0.71a		4	0.67a
Ca-20	2	1.00A	Ir-77	3	0.68A		4	0.62		6	0.56A
Cd-48	2	0.95		4	0.63	Pm-61	3	0.97	Th-90	4	0.94
Ce-58	3	1.01		5	0.57	Po-84	4	0.94	Ti-22	2	0.86
	4	0.87	K-19	1	1.38		6	0.67A		3	0.67
Cf-98	3	0.95	La-57	3	1.03	Pr-59	3	0.99		4	0.61
	4	0.82	Li-3	1	0.76		4	0.85	Tl-81	1	1.5
Cl-17	-1	1.81P	Lu-71	3	0.86A	Pt-78	2	0.80A		3	0.89
	5	0.34A	Mg-12	2	0.72		4	0.63	Tm-69	2	1.03
	7	0.27A	Mn-25	2L	0.67		5	0.57		3	0.88A
Cm-96	3	0.97		2H	0.83	Pu-94	3	1	U-92	3	1.03
	4	0.85		3L	0.58		4	0.86		4	0.89
Co-27	2L	0.65		3H	0.70a		5	0.74		5	0.76
	2H	0.75		4	0.53		6	0.71		6	0.73
	3L	0.55		7	0.46A	Ra-88	2	1.43A	V-23	2	0.79
	3H	0.61	Mo-42	3	0.69	Rb-37	1	1.52		3	0.64
	4L	0.49a			0.65	Re-75	4	0.63		4	0.58
	4H	0.53			0.61		5	0.58		5	0.54
Cr-24	2L	0.73		6	0.59		6	0.55	W-74	4	0.66
	2H	0.8	N-7	-3	1.71P		7	0.53		5	0.62
	3	0.62A		3	0.16A	Rh-45	3	0.67A		6	0.58a
	4	0.55		5	0.13A		4	0.6	Y-39	3	0.9
	5	0.51a	Na-11	1	1.02		5	0.55	Yb-70	2	1.02
	6	0.49a	Nb-41	3	0.72	Ru-44	3	0.68		3	0.87A
Cs-55	1	1.67A		4	0.68		4	0.62	Zn-30	2	0.74A
Cu-29	1	0.96A		5	0.64		5	0.57	Zr-40	4	0.72
	2	0.73A	Nd-60	3	0.98	S-16	-2	1.84P			

Note: A: Ahrens' (1952) values adopted by Shannon (1976) or in agreement with Shannon's values within +0.01; P: Pauling's Table 13-3 (1960); asterisk a: preferred interpolated values from Fig. I-13. L: low spin; H: high spin. Some more ionic radii data are given by Dean (1985) though the data sources are not indicated.