

Average Covalent Radii for Single Bonds

Values in pm (10^{-12} m)

1 H • 32																	2 He • 46
3 Li ●	4 Be ●											5 B ●	6 C ●	7 N ●	8 O ●	9 F ●	10 Ne ●
11 Na ●	12 Mg ●											13 Al ●	14 Si ●	15 P ●	16 S ●	17 Cl ●	18 Ar ●
19 K ●	20 Ca ●	21 Sc ●	22 Ti ●	23 V ●	24 Cr ●	25 Mn ●	26 Fe ●	27 Co ●	28 Ni ●	29 Cu ●	30 Zn ●	31 Ga ●	32 Ge ●	33 As ●	34 Se ●	35 Br ●	36 Kr ●
37 Rb ●	38 Sr ●	39 Y ●	40 Zr ●	41 Nb ●	42 Mo ●	43 Tc ●	44 Ru ●	45 Rh ●	46 Pd ●	47 Ag ●	48 Cd ●	49 In ●	50 Sn ●	51 Sb ●	52 Te ●	53 I ●	54 Xe ●
55 Cs ●	56 Ba ●	57-71	72 Hf ●	73 Ta ●	74 W ●	75 Re ●	76 Os ●	77 Ir ●	78 Pt ●	79 Au ●	80 Hg ●	81 Tl ●	82 Pb ●	83 Bi ●	84 Po ●	85 At ●	86 Rn ●
87 Fr ●	88 Ra ●	89-103	104 Rf ●	105 Db ●	106 Sg ●	107 Bh ●	108 Hs ●	109 Mt ●	110 Ds ●	111 Rg ●	112 Cn ●	113 Nh ●	114 Fl ●	115 Mc ●	116 Lv ●	117 Ts ●	118 Og ●

57 La ●	58 Ce ●	59 Pr ●	60 Nd ●	61 Pm ●	62 Sm ●	63 Eu ●	64 Gd ●	65 Tb ●	66 Dy ●	67 Ho ●	68 Er ●	69 Tm ●	70 Yb ●	71 Lu ●
180	163	176	174	173	172	168	169	168	167	166	165	164	170	162
89 Ac ●	90 Th ●	91 Pa ●	92 U ●	93 Np ●	94 Pu ●	95 Am ●	96 Cm ●	97 Bk ●	98 Cf ●	99 Es ●	100 Fm ●	101 Md ●	102 No ●	103 Lr ●
186	175	169	170	171	172	166	166	168	168	165	167	173	176	161