

TABLE III. POISSON'S RATIO

Element	σ	Ref.
3 Li	0.362 ^{a,b}	1
4 Be	0.039 ± 0.011	2, 3
5 B	0.089 ^c	—
6 C(g)	0.27 ± 0.06	4
6 C(d)	0.18 ± 0.08 ^b	5
11 Na	0.315 ^{b,d}	1
12 Mg	0.28	6
13 Al	0.34 ± 0.01	7, 8, 9
14 Si	0.44	6
15 P(w, r, b)	(0.335) ^e	—
16 S(r)	0.343 ^b	5
19 K	0.35 ^{b,d}	1
20 Ca	0.31	6
21 Sc	(0.269) ^e	—
22 Ti	0.345 ± 0.005	2, 10
23 V	0.36	2
24 Cr	0.209 ^b	11
25 Mn	0.24	6
26 Fe	0.279 ± 0.013	7, 9, 12, 13
27 Co	0.334	13
28 Ni	0.30 ± 0.01	12, 13
29 Cu	0.345 ± 0.005	7, 9
30 Zn	0.29	14
31 Ga	0.235 ^{b,f}	15
32 Ge	0.27	6
33 As	(0.335) ^e	—
34 Se	(0.338) ^e	—
37 Rb	(0.356) ^e	—
38 Sr	(0.304) ^e	—
39 Y	0.258 ± 0.008	16, 17
40 Zr	0.34	2, 18
41 Nb	0.35 ± 0.03	2, 19
42 Mo	0.30	9
43 Tc	(0.293) ^e	—
44 Ru	0.286 ^e	—
45 Rh	0.27	9
46 Pd	0.375 ± 0.015	9, 12
47 Ag	0.37	9, 12
48 Cd	0.30	12
49 In	0.46	6
50 Sn(g)	0.42	20
50 Sn(w)	0.33	12
51 Sb	0.31 ± 0.06 ^g	—
52 Te	0.33	21
55 Cs	(0.356) ^e	—
56 Ba	0.28	6

TABLE III. POISSON'S RATIO—Continued

Element	σ	Ref.
57 La	0.288	17
58 Ce(α)	0.14 ^a	22
58 Ce(γ)	0.248	17
59 Pr	0.305	17
60 Nd	0.306	17
61 Pm	(0.278) ^e	—
62 Sm	0.352	17
63 Eu	(0.286) ^e	—
64 Gd	0.259	17
65 Tb	0.261	17
66 Dy	0.243	17
67 Ho	0.255	17
68 Er	0.238	17
69 Tm	(0.235) ^e	—
70 Yb	0.284	17
71 Lu	(0.233) ^e	—
72 Hf	0.30	6
73 Ta	0.35	9
74 W	0.284 ± 0.004	9, 23, 24, 25
75 Re	0.293 ^e	—
76 Os	(0.255) ^e	—
77 Ir	0.26	9
78 Pt	0.38 ± 0.01	9, 12
79 Au	0.425 ± 0.010	7, 9, 12
80 Hg	0.364 ^{a,b}	5
81 Tl	0.46	6
82 Pb	0.44	12
83 Bi	0.33	12
84 Po	(0.338) ^e	—
87 Fr	(0.356) ^e	—
88 Ra	(0.304) ^e	—
89 Ac	(0.269) ^e	—
90 Th	0.285 ± 0.015	2, 26
91 Pa	(0.282) ^e	—
92 U	0.245 ± 0.005	2, 27
93 NP	(0.255) ^e	—
94 Pu	0.15	28

^a Value obtained at 83°K.

^b Single-crystal data.

^c Calculated from Young's modulus and bulk modulus.

^d Value obtained at 90°K.

^e Estimated value; see text for further discussion.

^f Value obtained at 273°K.

^g Calculated from the three moduli; see text for further details.

^h Extrapolated from high-pressure data of Voronov *et al.*²² to zero pressure.