

TABLE XXIV. GRÜNEISEN CONSTANT—Continued

Element	$\gamma$ Calculated from $C_s$ data ( $\gamma_0$ )				$\gamma$ Calculated from compressibility data ( $\gamma_s$ )	$\gamma$ Calculated from shock wave data	
	(This paper)		Literature	Ref.		$\gamma_{sw}$	Ref.
	$C_s^1$	$C_s$					
64 Gd	(0.57) <sup>a</sup>	0.52	0.55	10	1.62	—	—
65 Tb	0.91	0.83	0.61	10	—	—	—
66 Dy	0.87	0.78	0.68	10	1.35	—	—
67 Ho	1.24	0.89	0.80	10	1.35	—	—
68 Er	1.17	1.01	0.88	10	1.33	—	—
69 Tm	1.38	1.08	0.94	10	1.47	—	—
70 Yb	1.02	0.98	0.95	10	0.98	—	—
71 Lu	0.75	0.66	1.15	10	1.45	—	—
72 Hf	1.07	1.04	—	—	0.34	—	—
73 Ta	1.82	1.69	1.70 ±0.06	1-4, 9	0.32	0.31	4
74 W	1.78	1.76	1.68 ±0.06	1, 3	-1.64	1.54	8
75 Re	2.66	2.59	—	—	—	—	—
76 Os	(2.02) <sup>a</sup>	(2.02) <sup>a</sup>	—	—	—	—	—
77 Ir	2.49	2.39	—	—	4.58	—	—
78 Pt	2.92	2.69	2.56 ±0.12	1, 3, 4, 9	0.05	1.81	4
79 Au	3.09	3.06	3.04 ±0.04	1-4, 6	1.84	2.22	4
80 Hg	3.00	2.93	—	—	—	—	—
81 Tl	2.27	2.19	2.73	5	1.51	2.13	4
82 Pb	2.84	2.74	2.62 ±0.27	1, 3, 4	1.12	2.38 ±0.35	4, 7, 11
83 Bi	1.05	1.05	1.13 ±0.01	3, 5	1.96	—	—
84 Po	(1.62) <sup>a</sup>	(1.61) <sup>a</sup>	—	—	—	—	—
87 Fr	(1.65) <sup>a</sup>	(1.57) <sup>a</sup>	—	—	—	—	—
88 Ra	(1.21) <sup>a</sup>	(1.17) <sup>a</sup>	—	—	—	—	—
89 Ac	(1.03) <sup>a</sup>	(0.92) <sup>a</sup>	—	—	—	—	—
90 Th	1.41	1.34	1.21 ±0.09	3, 4	2.37	1.76	4
91 Pa	(0.96) <sup>a</sup>	(0.89) <sup>a</sup>	—	—	—	—	—
92 U	2.07	1.82	—	—	4.03	—	—
93 Np	(3.00) <sup>a</sup>	(2.67) <sup>a</sup>	—	—	—	—	—
94 Pu	6.76	3.51	—	—	2.98	—	—

<sup>a</sup> Estimated value; see text for further discussion.