



TEMPERATURE INTERCONVERSION TABLES ($^{\circ}\text{C} \longleftrightarrow ^{\circ}\text{F}$) AND MELTING POINTS
 OF THE CHEMICAL ELEMENTS

TABLE 1.—Conversion table: degrees centigrade to degrees Fahrenheit

| $^{\circ}\text{C}$ | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | | |
|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------------|--------------------|
| | F | F | F | F | F | F | F | F | F | F | | |
| -200 | -328 | -346 | -364 | -382 | -400 | -418 | -436 | -454 | -472 | -490 | | |
| -100 | -148 | -166 | -184 | -202 | -220 | -238 | -256 | -274 | -292 | -310 | | |
| -0 | +32 | +14 | -4 | -22 | -40 | -58 | -76 | -94 | -112 | -130 | | |
| 0 | 32 | 50 | 68 | 86 | 104 | 122 | 140 | 158 | 176 | 194 | $^{\circ}\text{C}$ | $^{\circ}\text{F}$ |
| 100 | 212 | 230 | 248 | 266 | 284 | 302 | 320 | 338 | 356 | 374 | 1 | 1.8 |
| 200 | 392 | 410 | 428 | 446 | 464 | 482 | 500 | 518 | 536 | 554 | 2 | 3.6 |
| 300 | 572 | 590 | 608 | 626 | 644 | 662 | 680 | 698 | 716 | 734 | 3 | 5.4 |
| 400 | 752 | 770 | 788 | 806 | 824 | 842 | 860 | 878 | 896 | 914 | 4 | 7.2 |
| 500 | 932 | 950 | 968 | 986 | 1004 | 1022 | 1040 | 1058 | 1076 | 1094 | 5 | 9.0 |
| 600 | 1112 | 1130 | 1148 | 1166 | 1184 | 1202 | 1220 | 1238 | 1256 | 1274 | 6 | 10.8 |
| 700 | 1292 | 1310 | 1328 | 1346 | 1364 | 1382 | 1400 | 1418 | 1436 | 1454 | 7 | 12.6 |
| 800 | 1472 | 1490 | 1508 | 1526 | 1544 | 1562 | 1580 | 1598 | 1616 | 1634 | 8 | 14.4 |
| 900 | 1652 | 1670 | 1688 | 1706 | 1724 | 1742 | 1760 | 1778 | 1796 | 1814 | 9 | 16.2 |
| 1000 | 1832 | 1850 | 1868 | 1886 | 1904 | 1922 | 1940 | 1958 | 1976 | 1994 | 10 | 18.0 |
| 1100 | 2012 | 2030 | 2048 | 2066 | 2084 | 2102 | 2120 | 2138 | 2156 | 2174 | | |
| 1200 | 2192 | 2210 | 2228 | 2246 | 2264 | 2282 | 2300 | 2318 | 2336 | 2354 | | |
| 1300 | 2372 | 2390 | 2408 | 2426 | 2444 | 2462 | 2480 | 2498 | 2516 | 2534 | | |
| 1400 | 2552 | 2570 | 2588 | 2606 | 2624 | 2642 | 2660 | 2678 | 2696 | 2714 | | |
| 1500 | 2732 | 2750 | 2768 | 2786 | 2804 | 2822 | 2840 | 2858 | 2876 | 2894 | $^{\circ}\text{F}$ | $^{\circ}\text{C}$ |
| 1600 | 2912 | 2930 | 2948 | 2966 | 2984 | 3002 | 3020 | 3038 | 3056 | 3074 | 1 | 0.56 |
| 1700 | 3092 | 3110 | 3128 | 3146 | 3164 | 3182 | 3200 | 3218 | 3236 | 3254 | 2 | 1.11 |
| 1800 | 3272 | 3290 | 3308 | 3326 | 3344 | 3362 | 3380 | 3398 | 3416 | 3434 | 3 | 1.67 |
| 1900 | 3452 | 3470 | 3488 | 3506 | 3524 | 3542 | 3560 | 3578 | 3596 | 3614 | 4 | 2.22 |
| 2000 | 3632 | 3650 | 3668 | 3686 | 3704 | 3722 | 3740 | 3758 | 3776 | 3794 | 5 | 2.78 |
| 2100 | 3812 | 3830 | 3848 | 3866 | 3884 | 3902 | 3920 | 3938 | 3956 | 3974 | 6 | 3.33 |
| 2200 | 3992 | 4010 | 4028 | 4046 | 4064 | 4082 | 4100 | 4118 | 4136 | 4154 | 7 | 3.89 |
| 2300 | 4172 | 4190 | 4208 | 4226 | 4244 | 4262 | 4280 | 4298 | 4316 | 4334 | 8 | 4.44 |
| 2400 | 4352 | 4370 | 4388 | 4406 | 4424 | 4442 | 4460 | 4478 | 4496 | 4514 | 9 | 5.00 |
| 2500 | 4532 | 4550 | 4568 | 4586 | 4604 | 4622 | 4640 | 4658 | 4676 | 4694 | 10 | 5.56 |
| 2600 | 4712 | 4730 | 4748 | 4766 | 4784 | 4802 | 4820 | 4838 | 4856 | 4874 | 11 | 6.11 |
| 2700 | 4892 | 4910 | 4928 | 4946 | 4964 | 4982 | 5000 | 5018 | 5036 | 5054 | 12 | 6.67 |
| 2800 | 5072 | 5090 | 5108 | 5126 | 5144 | 5162 | 5180 | 5198 | 5216 | 5234 | 13 | 7.22 |
| 2900 | 5252 | 5270 | 5288 | 5306 | 5324 | 5342 | 5360 | 5378 | 5396 | 5414 | 14 | 7.78 |
| 3000 | 5432 | 5450 | 5468 | 5486 | 5504 | 5522 | 5540 | 5558 | 5576 | 5594 | 15 | 8.33 |
| 3100 | 5612 | 5630 | 5648 | 5666 | 5684 | 5702 | 5720 | 5738 | 5756 | 5774 | 16 | 8.89 |
| 3200 | 5792 | 5810 | 5828 | 5846 | 5864 | 5882 | 5900 | 5918 | 5936 | 5954 | 17 | 9.44 |
| 3300 | 5972 | 5990 | 6008 | 6026 | 6044 | 6062 | 6080 | 6098 | 6116 | 6134 | 18 | 10.00 |
| 3400 | 6152 | 6170 | 6188 | 6206 | 6224 | 6242 | 6260 | 6278 | 6296 | 6314 | | |
| 3500 | 6332 | 6350 | 6368 | 6386 | 6404 | 6422 | 6440 | 6458 | 6476 | 6494 | | |
| 3600 | 6512 | 6530 | 6548 | 6566 | 6584 | 6602 | 6620 | 6638 | 6656 | 6674 | | |
| 3700 | 6692 | 6710 | 6728 | 6746 | 6764 | 6782 | 6800 | 6818 | 6836 | 6854 | | |
| 3800 | 6872 | 6890 | 6908 | 6926 | 6944 | 6962 | 6980 | 6998 | 7016 | 7034 | | |
| 3900 | 7052 | 7070 | 7088 | 7106 | 7124 | 7142 | 7160 | 7178 | 7196 | 7214 | | |
| $^{\circ}\text{C}$ | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | | |

EXAMPLES: $1347^{\circ}\text{C} = 2444^{\circ}\text{F} + 12.6^{\circ}\text{F} = 2456.6^{\circ}\text{F}$, $3367^{\circ}\text{F} = 1850^{\circ}\text{C} + 2.75^{\circ}\text{C} = 1852.75^{\circ}\text{C}$.

TABLE 2.—Conversion table: degrees Fahrenheit to degrees centigrade
(Single boldface figures indicate recurring decimals)

| ° F | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | | |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|-----|
| | C | C | C | C | C | C | C | C | C | C | | |
| -400 | -240.0 | -245.5 | -251.1 | -256.6 | -262.2 | -267.7 | -273.2 | -278.7 | -284.2 | -289.7 | | |
| -300 | -184.4 | -190.0 | -195.5 | -201.1 | -206.6 | -212.2 | -217.7 | -223.3 | -228.8 | -234.4 | | |
| -200 | -128.8 | -134.4 | -140.0 | -145.5 | -151.1 | -156.6 | -162.2 | -167.7 | -173.3 | -178.8 | | |
| -100 | -73.3 | -78.8 | -84.4 | -90.0 | -95.5 | -101.1 | -106.6 | -112.2 | -117.7 | -123.3 | | |
| -0 | -17.7 | -23.3 | -28.8 | -34.4 | -40.0 | -45.5 | -51.1 | -56.6 | -62.2 | -67.7 | | |
| 0 | -17.7 | -12.2 | -6.6 | -1.1 | +4.4 | +10.0 | +15.5 | +21.1 | +26.6 | +32.2 | | |
| 100 | 37.7 | 43.3 | 48.8 | 54.4 | 60.0 | 65.5 | 71.1 | 76.6 | 82.2 | 87.7 | | |
| 200 | 93.3 | 98.8 | 104.4 | 110.0 | 115.5 | 121.1 | 126.6 | 132.2 | 137.7 | 143.3 | | |
| 300 | 148.8 | 154.4 | 160.0 | 165.5 | 171.1 | 176.6 | 182.2 | 187.7 | 193.3 | 198.8 | | |
| 400 | 204.4 | 210.0 | 215.5 | 221.1 | 226.6 | 232.2 | 237.7 | 243.3 | 248.8 | 254.4 | | |
| 500 | 260.0 | 265.5 | 271.1 | 276.6 | 282.2 | 287.7 | 293.3 | 298.8 | 304.4 | 310.0 | | |
| 600 | 315.5 | 321.1 | 326.6 | 332.2 | 337.7 | 343.3 | 348.8 | 354.4 | 360.0 | 365.5 | | |
| 700 | 371.1 | 376.6 | 382.2 | 387.7 | 393.3 | 398.8 | 404.4 | 410.0 | 415.5 | 421.1 | | |
| 800 | 426.6 | 432.2 | 437.7 | 443.3 | 448.8 | 454.4 | 460.0 | 465.5 | 471.1 | 476.6 | | |
| 900 | 482.2 | 487.7 | 493.3 | 498.8 | 504.4 | 510.0 | 515.5 | 521.1 | 526.6 | 532.2 | | |
| 1000 | 537.7 | 543.3 | 548.8 | 554.4 | 560.0 | 565.5 | 571.1 | 576.6 | 582.2 | 587.7 | | |
| | | | | | | | | | | | ° F | ° C |
| | | | | | | | | | | | 1 | 0.5 |
| | | | | | | | | | | | 2 | 1.1 |
| | | | | | | | | | | | 3 | 1.6 |
| 1100 | 593.3 | 598.8 | 604.4 | 610.0 | 615.5 | 621.1 | 626.6 | 632.2 | 637.7 | 643.3 | | |
| 1200 | 648.8 | 654.4 | 660.0 | 665.5 | 671.1 | 676.6 | 682.2 | 687.7 | 693.3 | 698.8 | | |
| 1300 | 704.4 | 710.0 | 715.5 | 721.1 | 726.6 | 732.2 | 737.7 | 743.3 | 748.8 | 754.4 | | |
| 1400 | 760.0 | 765.5 | 771.1 | 776.6 | 782.2 | 787.7 | 793.3 | 798.8 | 804.4 | 810.0 | | |
| 1500 | 815.5 | 821.1 | 826.6 | 832.2 | 837.7 | 843.3 | 848.8 | 854.4 | 860.0 | 865.5 | | |
| 1600 | 871.1 | 876.6 | 882.2 | 887.7 | 893.3 | 898.8 | 904.4 | 910.0 | 915.5 | 921.1 | | |
| 1700 | 926.6 | 932.2 | 937.7 | 943.3 | 948.8 | 954.4 | 960.0 | 965.5 | 971.1 | 976.6 | | |
| 1800 | 982.2 | 987.7 | 993.3 | 998.8 | 1004.4 | 1010.0 | 1015.5 | 1021.1 | 1026.6 | 1032.2 | | |
| 1900 | 1037.7 | 1043.3 | 1048.8 | 1054.4 | 1060.0 | 1065.5 | 1071.1 | 1076.6 | 1082.2 | 1087.7 | | |
| 2000 | 1093.3 | 1098.8 | 1104.4 | 1110.0 | 1115.5 | 1121.1 | 1126.6 | 1132.2 | 1137.7 | 1143.3 | | |
| | | | | | | | | | | | 4 | 2.2 |
| | | | | | | | | | | | 5 | 2.7 |
| | | | | | | | | | | | 6 | 3.3 |
| | | | | | | | | | | | 7 | 3.8 |
| | | | | | | | | | | | 8 | 4.4 |
| | | | | | | | | | | | 9 | 5.0 |
| 2100 | 1148.8 | 1154.4 | 1160.0 | 1165.5 | 1171.1 | 1176.6 | 1182.2 | 1187.7 | 1193.3 | 1198.8 | | |
| 2200 | 1204.4 | 1210.0 | 1215.5 | 1221.1 | 1226.6 | 1232.2 | 1237.7 | 1243.3 | 1248.8 | 1254.4 | | |
| 2300 | 1260.0 | 1265.5 | 1271.1 | 1276.6 | 1282.2 | 1287.7 | 1293.3 | 1298.8 | 1304.4 | 1310.0 | | |
| 2400 | 1315.5 | 1321.1 | 1326.6 | 1332.2 | 1337.7 | 1343.3 | 1348.8 | 1354.4 | 1360.0 | 1365.5 | | |
| 2500 | 1371.1 | 1376.6 | 1382.2 | 1387.7 | 1393.3 | 1398.8 | 1404.4 | 1410.0 | 1415.5 | 1421.1 | | |
| 2600 | 1426.6 | 1432.2 | 1437.7 | 1443.3 | 1448.8 | 1454.4 | 1460.0 | 1465.5 | 1471.1 | 1476.6 | | |
| 2700 | 1482.2 | 1487.7 | 1493.3 | 1498.8 | 1504.4 | 1510.0 | 1515.5 | 1521.1 | 1526.6 | 1532.2 | | |
| 2800 | 1537.7 | 1543.3 | 1548.8 | 1554.4 | 1560.0 | 1565.5 | 1571.1 | 1576.6 | 1582.2 | 1587.7 | | |
| 2900 | 1593.3 | 1598.8 | 1604.4 | 1610.0 | 1615.5 | 1621.1 | 1626.6 | 1632.2 | 1637.7 | 1643.3 | | |
| 3000 | 1648.8 | 1654.4 | 1660.0 | 1665.5 | 1671.1 | 1676.6 | 1682.2 | 1687.7 | 1693.3 | 1698.8 | | |
| 3100 | 1704.4 | 1710.0 | 1715.5 | 1721.1 | 1726.6 | 1732.2 | 1737.7 | 1743.3 | 1748.8 | 1754.4 | | |
| 3200 | 1760.0 | 1765.5 | 1771.1 | 1776.6 | 1782.2 | 1787.7 | 1793.3 | 1798.8 | 1804.4 | 1810.0 | | |
| 3300 | 1815.5 | 1821.1 | 1826.6 | 1832.2 | 1837.7 | 1843.3 | 1848.8 | 1854.4 | 1860.0 | 1865.5 | | |
| 3400 | 1871.1 | 1876.6 | 1882.2 | 1887.7 | 1893.3 | 1898.8 | 1904.4 | 1910.0 | 1915.5 | 1921.1 | | |
| 3500 | 1926.6 | 1932.2 | 1937.7 | 1943.3 | 1948.8 | 1954.4 | 1960.0 | 1965.5 | 1971.1 | 1976.6 | | |
| 3600 | 1982.2 | 1987.7 | 1993.3 | 1998.8 | 2004.4 | 2010.0 | 2015.5 | 2021.1 | 2026.6 | 2032.2 | | |
| ° F | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | | |

EXAMPLES: -246.0° F = -151.11° C -3.33° C = -154.44° C.
 3762° F = 2071.1° C + 1.1° C = 2072.2° C.
 2423.5° F = 1326.66° C + 1.66° C + 0.27° C = 1328.61° C.

TABLE 2.—Continued

°F to °C

| ° F | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | |
|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|
| | C | C | C | C | C | C | C | C | C | C | |
| 3700 | 2037.7 | 2043.3 | 1048.8 | 1054.4 | 2060.0 | 2065.5 | 2071.1 | 2076.6 | 2082.2 | 2087.7 | |
| 3800 | 2093.3 | 2098.8 | 2104.4 | 2110.0 | 2115.5 | 2121.1 | 2126.6 | 2132.2 | 2137.7 | 2143.3 | |
| 3900 | 2148.8 | 2154.4 | 2160.0 | 2165.5 | 2171.1 | 2176.6 | 2182.2 | 2187.7 | 2193.3 | 2198.8 | |
| 4000 | 2204.4 | 2210.0 | 2215.5 | 2221.1 | 2226.6 | 2232.2 | 2237.7 | 2243.3 | 2248.8 | 2254.4 | |
| 4100 | 2260.0 | 2265.5 | 2271.1 | 2276.6 | 2282.2 | 2287.7 | 2293.3 | 2298.8 | 2304.4 | 2310.0 | |
| 4200 | 2315.5 | 2321.1 | 2326.6 | 2332.2 | 2337.7 | 2343.3 | 2348.8 | 2354.4 | 2360.0 | 2365.5 | |
| 4300 | 2371.1 | 2376.6 | 2382.2 | 2387.7 | 2393.3 | 2398.8 | 2404.4 | 2410.0 | 2415.5 | 2421.1 | |
| 4400 | 2426.6 | 2432.2 | 2437.7 | 2443.3 | 2448.8 | 2454.4 | 2460.0 | 2465.5 | 2471.1 | 2476.6 | |
| 4500 | 2482.2 | 2487.7 | 2493.3 | 2498.8 | 2504.4 | 2510.0 | 2515.5 | 2521.1 | 2526.6 | 2532.2 | |
| 4600 | 2537.7 | 2543.3 | 2548.8 | 2554.4 | 2560.0 | 2565.5 | 2571.1 | 2576.6 | 2582.2 | 2587.7 | |
| 4700 | 2593.3 | 2598.8 | 2604.4 | 2610.0 | 2615.5 | 2621.1 | 2626.6 | 2632.2 | 2637.7 | 2643.3 | |
| 4800 | 2648.8 | 2654.4 | 2660.0 | 2665.5 | 2671.1 | 2676.6 | 2682.2 | 2687.7 | 2693.3 | 2698.8 | |
| 4900 | 2704.4 | 2710.0 | 2715.5 | 2721.1 | 2726.6 | 2732.2 | 2737.7 | 2743.3 | 2748.8 | 2754.4 | |
| 5000 | 2760.0 | 2765.5 | 2771.1 | 2776.6 | 2782.2 | 2787.7 | 2793.3 | 2798.8 | 2804.4 | 2810.0 | |
| 5100 | 2815.5 | 2821.1 | 2826.6 | 2832.2 | 2837.7 | 2843.3 | 2848.8 | 2854.4 | 2860.0 | 2865.5 | 1 0.5 |
| 5200 | 2871.1 | 2876.6 | 2882.2 | 2887.7 | 2893.3 | 2898.8 | 2904.4 | 2910.0 | 2915.5 | 2921.1 | 2 1.1 |
| 5300 | 2926.6 | 2932.2 | 2937.7 | 2943.3 | 2948.8 | 2954.4 | 2960.0 | 2965.5 | 2971.1 | 2976.6 | 3 1.6 |
| 5400 | 2982.2 | 2987.7 | 2993.3 | 2998.8 | 3004.4 | 3010.0 | 3015.5 | 3021.1 | 3026.6 | 3032.2 | 4 2.2 |
| 5500 | 3037.7 | 3043.3 | 3048.8 | 3054.4 | 3060.0 | 3065.5 | 3071.1 | 3076.6 | 3082.2 | 3087.7 | 5 2.7 |
| 5600 | 3093.3 | 3098.8 | 3104.4 | 3110.0 | 3115.5 | 3121.1 | 3126.6 | 3132.2 | 3137.7 | 3143.3 | 6 3.3 |
| 5700 | 3148.8 | 3154.4 | 3160.0 | 3165.5 | 3171.1 | 3176.6 | 3182.2 | 3187.7 | 3193.3 | 3198.8 | 7 3.8 |
| 5800 | 3204.4 | 3210.0 | 3215.5 | 3221.1 | 3226.6 | 3232.2 | 3237.7 | 3243.3 | 3248.8 | 3254.4 | 8 4.4 |
| 5900 | 3260.0 | 3265.5 | 3271.1 | 3276.6 | 3282.2 | 3287.7 | 3293.3 | 3298.8 | 3304.4 | 3310.0 | 9 5.0 |
| 6000 | 3315.5 | 3321.1 | 3326.6 | 3332.2 | 3337.7 | 3343.3 | 3348.8 | 3354.4 | 3360.0 | 3365.5 | |
| 6100 | 3371.1 | 3376.6 | 3382.2 | 3387.7 | 3393.3 | 3398.8 | 3404.4 | 3410.0 | 3415.5 | 3421.1 | |
| 6200 | 3426.6 | 3432.2 | 3437.7 | 3443.3 | 3448.8 | 3454.4 | 3460.0 | 3465.5 | 3471.1 | 3476.6 | |
| 6300 | 3482.2 | 3487.7 | 3493.3 | 3498.8 | 3504.4 | 3510.0 | 3515.5 | 3521.1 | 3526.6 | 3532.2 | |
| 6400 | 3537.7 | 3543.3 | 3548.8 | 3554.4 | 3560.0 | 3565.5 | 3571.1 | 3576.6 | 3582.2 | 3587.7 | |
| 6500 | 3593.3 | 3598.8 | 3604.4 | 3610.0 | 3615.5 | 3621.1 | 3626.6 | 3632.2 | 3637.7 | 3643.3 | |
| 6600 | 3648.8 | 3654.4 | 3660.0 | 3665.5 | 3671.1 | 3676.6 | 3682.2 | 3687.7 | 3693.3 | 3698.8 | |
| 6700 | 3704.4 | 3710.0 | 3715.5 | 3721.1 | 3726.6 | 3732.2 | 3737.7 | 3743.3 | 3748.8 | 3754.4 | |
| 6800 | 3760.0 | 3765.5 | 3771.1 | 3776.6 | 3782.2 | 3787.7 | 3793.3 | 3798.8 | 3804.4 | 3810.0 | |
| 6900 | 3815.5 | 3821.1 | 3826.6 | 3832.2 | 3837.7 | 3843.3 | 3848.8 | 3854.4 | 3860.0 | 3865.5 | |
| 7000 | 3871.1 | 3876.6 | 3882.2 | 3887.7 | 3893.3 | 3898.8 | 3904.4 | 3910.0 | 3915.5 | 3921.1 | |
| 7100 | 3926.6 | 3932.2 | 3937.7 | 3943.3 | 3948.8 | 3954.4 | 3960.0 | 3965.5 | 3971.1 | 3976.6 | |
| 7200 | 3982.2 | 3987.7 | 3993.3 | 3998.8 | 4004.4 | 4010.0 | 4015.5 | 4021.1 | 4026.6 | 4032.2 | |
| 7300 | 4037.7 | 4043.3 | 4048.8 | 4054.4 | 4060.0 | 4065.5 | 4071.1 | 4076.6 | 4082.2 | 4087.7 | |
| 7400 | 4093.3 | 4098.8 | 4104.4 | 4110.0 | 4115.5 | 4121.1 | 4126.6 | 4132.2 | 4137.7 | 4143.3 | |
| 7500 | 4148.8 | 4154.4 | 4160.0 | 4165.5 | 4171.1 | 4176.6 | 4182.2 | 4187.7 | 4193.3 | 4198.8 | |
| 7600 | 4204.4 | 4210.0 | 4215.5 | 4221.1 | 4226.6 | 4232.2 | 4237.7 | 4243.3 | 4248.8 | 4254.4 | |
| 7700 | 4260.0 | 4265.5 | 4271.1 | 4276.6 | 4282.2 | 4287.7 | 4293.3 | 4298.8 | 4304.4 | 4310.0 | |
| 7800 | 4315.5 | 4321.1 | 4326.6 | 4332.2 | 4337.7 | 4343.3 | 4348.8 | 4354.4 | 4360.0 | 4365.5 | |
| 7900 | 4371.1 | 4376.6 | 4382.2 | 4387.7 | 4393.3 | 4398.8 | 4404.4 | 4410.0 | 4415.5 | 4421.1 | |
| ° F | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | |

TABLE 3.—*The chemical elements: Their atomic numbers, symbols, and weights, and their melting points on the International Temperature Scale*

(For International Temperature Scale, see BS J. Research 1, 635 (1928) RP22)

Temperatures below -190°C are on the Centigrade Thermodynamic Scale.

The atomic weights given constitute the complete list of the International Weights of 1941 as approved and reported by the Committee on Atomic Weights of the International Union of Chemistry.

| Atomic number | Atomic symbol | Name of element | Melting point | Atomic weight | Atomic number | Atomic symbol | Name of element | Melting point | Atomic weight |
|---------------|---------------|------------------------------|-----------------------------|---------------|---------------|---------------|-------------------|--------------------|---------------|
| | | | $^{\circ}\text{C}$ | | | | | $^{\circ}\text{C}$ | |
| 89 | Ac | Actinium..... | ^a 1600 | | 42 | Mo | Molybdenum.... | 2625 \pm 50 | 95.95 |
| 13 | Al | Aluminum..... | 660.0 \pm 0.1 | 26.97 | 60 | Nd | Neodymium..... | 840 \pm 40 | 144.27 |
| 51 | Sb | Antimony..... | 630.5 \pm 1 | 121.76 | 10 | Ne | Neon..... | -248.6 \pm 0.3 | 20.183 |
| 18 | A | Argon..... | -189.4 \pm 2 | 39.944 | 28 | Ni | Nickel..... | 1455 \pm 1 | 58.69 |
| 33 | As | Arsenic..... | ^b 814 | 74.91 | 7 | N | Nitrogen..... | -210.0 \pm 0.1 | 14.008 |
| 56 | Ba | Barium..... | 704 \pm 20 | 137.36 | 76 | Os | Osmium..... | 2700 \pm 200 | 190.2 |
| 4 | Be | Beryllium..... | 1280 \pm 40 | 9.02 | 8 | O | Oxygen..... | -218.8 \pm 0.1 | 16.0000 |
| 83 | Bi | Bismuth..... | 271.3 \pm 0.1 | 209.00 | 46 | Pd | Palladium..... | 1554 \pm 1 | 106.7 |
| 5 | B | Boron..... | 2040 \pm 50 | 10.82 | 15 | P | Phosphorus, Y.... | 44.1 \pm 0.1 | 30.98 |
| 35 | Br | Bromine..... | -7.2 \pm 0.2 | 79.916 | | | Phosphorus, R.... | ^d 590 | |
| 48 | Cd | Cadmium..... | 320.9 \pm 1 | 112.41 | 78 | Pt | Platinum..... | 1773.5 \pm 1 | 195.23 |
| 20 | Ca | Calcium..... | 850 \pm 20 | 40.08 | 84 | Po | Polonium..... | ^a 600 | |
| 6 | C | Carbon..... | 3700 \pm 100 | 12.010 | 19 | K | Potassium..... | 63 \pm 1 | 39.096 |
| 58 | Ce | Cerium..... | 600 \pm 50 | 140.13 | 59 | Pr | Praseodymium.... | 940 \pm 50 | 140.92 |
| 55 | Cs | Cesium..... | 28 \pm 2 | 132.91 | 91 | Pa | Protactinium.... | ^a 3000 | 231 |
| 17 | Cl | Chlorine..... | -101 \pm 2 | 35.457 | 88 | Ra | Radium..... | 700 | 226.05 |
| 24 | Cr | Chromium..... | 1800 \pm 50 | 52.01 | 86 | Rn | Radon..... | -71 | 222 |
| 27 | Co | Cobalt..... | 1495 \pm 2 | 58.94 | 75 | Re | Rhenium..... | 3170 \pm 60 | 186.31 |
| 41 | Cb | Columbium..... | 2500 \pm 50 | 92.91 | 45 | Rh | Rhodium..... | 1966 \pm 3 | 102.91 |
| 29 | Cu | Copper..... | 1083.2 \pm 0.1 | 63.57 | 37 | Rb | Rubidium..... | 39 \pm 1 | 85.48 |
| 66 | Dy | Dysprosium..... | | 162.46 | 44 | Ru | Ruthenium..... | 2500 \pm 100 | 101.7 |
| 68 | Er | Erbium..... | | 167.2 | 62 | Sm | Samarium..... | > 1300 | 150.43 |
| 63 | Eu | Europium..... | | 152.0 | 21 | Sc | Scandium..... | 1200 | 45.10 |
| 9 | F | Fluorine..... | -223 \pm 10 | 19.00 | 34 | Se | Selenium..... | 220 \pm 5 | 78.96 |
| 64 | Gd | Gadolinium..... | | 156.9 | 14 | Si | Silicon..... | 1415 \pm 20 | 28.06 |
| 31 | Ga | Gallium..... | 29.78 \pm 0.02 | 69.72 | 47 | Ag | Silver..... | 960.5 \pm 0.0 | 107.880 |
| 32 | Ge | Germanium..... | 958 \pm 10 | 72.60 | 11 | Na | Sodium..... | 97.7 \pm 2 | 22.997 |
| 79 | Au | Gold..... | 1063.0 \pm 0.0 | 197.2 | 38 | Sr | Strontium..... | 770 \pm 10 | 87.63 |
| 72 | Hf | Hafnium..... | ^a 1700 | 178.6 | 16 | S | Sulfur: | | 32.06 |
| 2 | He | Helium..... | ^c -271.4 \pm 2 | 4.003 | | | Monoclinic..... | 119.2 \pm 0.2 | |
| 67 | Ho | Holmium..... | | 164.94 | | | Rhombic..... | 112.8 \pm 2 | |
| 1 | H | Hydrogen..... | -259.2 \pm 1 | 1.0080 | 73 | Ta | Tantalum..... | 3000 \pm 100 | 180.88 |
| | | H ₂ (normal)..... | -259.2 \pm 1 | | 52 | Te | Tellurium..... | 450 \pm 10 | 127.61 |
| | | HD..... | -256.5 \pm 2 | | 65 | Tb | Terbium..... | 327 \pm 5 | 159.2 |
| | | D ₂ (normal)..... | -254.5 \pm 2 | | 81 | Tl | Thallium..... | 300 \pm 3 | 204.39 |
| 61 | Il | Illinium..... | | | 90 | Th | Thorium..... | 1800 \pm 150 | 232.12 |
| 49 | In | Indium..... | 156.4 \pm 1 | 114.76 | 69 | Tm | Thulium..... | | 169.4 |
| 53 | I | Iodine..... | 114 \pm 1 | 126.92 | 50 | Sn | Tin..... | 231.9 \pm 0.1 | 118.70 |
| 77 | Ir | Iridium..... | 2454 \pm 3 | 193.1 | 22 | Ti | Titanium..... | 1820 \pm 100 | 47.90 |
| 26 | Fe | Iron..... | 1539 \pm 3 | 55.85 | 74 | W | Tungsten..... | 3410 \pm 20 | 183.92 |
| 36 | Kr | Krypton..... | -157.0 \pm 0.5 | 83.7 | 92 | U | Uranium..... | 1133 \pm 3 | 238.07 |
| 57 | La | Lanthanum..... | 826 \pm 5 | 138.92 | 23 | V | Vanadium..... | 1735 \pm 50 | 50.95 |
| 82 | Pb | Lead..... | 327.4 \pm 0.1 | 207.21 | 54 | Xe | Xenon..... | -112 \pm 1 | 131.3 |
| 3 | Li | Lithium..... | 186 \pm 5 | 6.940 | 70 | Yb | Ytterbium..... | 1800 | 173.04 |
| 71 | Lu | Lutecium..... | | 174.99 | 39 | Y | Yttrium..... | 1490 \pm 200 | 88.92 |
| 12 | Mg | Magnesium..... | 650 \pm 2 | 24.32 | 30 | Zn | Zinc..... | 419.5 \pm 0.1 | 65.38 |
| 25 | Mn | Manganese..... | 1260 \pm 20 | 54.93 | 40 | Zr | Zirconium..... | 1750 \pm 700 | 91.22 |
| 43 | Ma | Masurium..... | ^a 2700 | | 85 | | Element 85..... | ^a 250 | |
| 80 | Hg | Mercury..... | -38.87 \pm 0.02 | 200.61 | 87 | | Element 87..... | ^a 23 | |

^a Computed.

^b At 36 atmospheres.

^c At 30 atmospheres.

^d At 43 atmospheres.

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