

Equation of State Calculations

Reference: [osti.gov/servlets/purl/4390578/](https://www.osti.gov/servlets/purl/4390578/)

A(3, 3) = 2594.35
A(4, 4) = 973.046
A(4, 5) = 1216.27
A(4, 6) = 1459.85
A(5, 5) = 779.292
A(5, 6') = 932.482
A(5, 6'') = 933.785
A(5, 7') = 1087.54
A(5, 7'') = 1088.73
A(5, 7''') = 1090.7
A(5, 8') = 1243.41
A(5, 8'') = 1247.55
A(5, 9) = 1401.95
A(5, 10) = 1554.48
N(1/2) = 6251
C0 = 1.51871
A0/A = 0.959055
A/A0 = 1.04269
K = 2.5
nu = 2
C(1) = 1.8138
C(2) = 1.82089
C(3) = 2.78697
C(4) = 2.75449
X(3) = 8.20315
A(3, 3) = 2593.78
A(4, 4) = 973.055
A(4, 5) = 1216.71
A(4, 6) = 1459.37
A(5, 5) = 777.606
A(5, 6') = 935.149
A(5, 6'') = 936.039
A(5, 7') = 1089.76
A(5, 7'') = 1090.72
A(5, 7''') = 1090.82
A(5, 8') = 1247.53
A(5, 8'') = 1244.44
A(5, 9) = 1403.14
A(5, 10) = 1555.6
N(1/2) = 6249
C0 = 1.59334
A0/A = 0.869892
A/A0 = 1.14957

K = 2.45
 nu = 4
 C(1) = 1.8138
 C(2) = 1.82049
 C(3) = 2.78831
 C(4) = 2.73147
 X(3) = 6.35489
 A(3, 3) = 2594
 A(4, 4) = 973.016
 A(4, 5) = 1216.43
 A(4, 6) = 1459.37
 A(5, 5) = 779.614
 A(5, 6') = 932.103
 A(5, 6'') = 933.761
 A(5, 7') = 1090
 A(5, 7'') = 1089.11
 A(5, 7''') = 1089.49
 A(5, 8') = 1244.37
 A(5, 8'') = 1242.31
 A(5, 9) = 1402.56
 A(5, 10) = 1557.16
 N(1/2) = 6278
 C0 = 1.68228
 A0/A = 0.757772
 A/A0 = 1.31966
 K = 2.4
 nu = 5
 C(1) = 1.8138
 C(2) = 1.81182
 C(3) = 2.77838
 C(4) = 2.79099
 X(3) = 4.54404
 A(3, 3) = 2593.61
 A(4, 4) = 973.043
 A(4, 5) = 1216.25
 A(4, 6) = 1459.71
 A(5, 5) = 780.681
 A(5, 6') = 935.27
 A(5, 6'') = 932.087
 A(5, 7') = 1088.13
 A(5, 7'') = 1089.21
 A(5, 7''') = 1092.92
 A(5, 8') = 1247.76
 A(5, 8'') = 1245.66
 A(5, 9) = 1400.85
 A(5, 10) = 1559.08
 N(1/2) = 6287

$C_0 = 1.77316$
 $A_0/A = 0.670746$
 $A/A_0 = 1.49088$
 $K = 2.35$
 $\nu = 5.5$
 $C(1) = 1.8138$
 $C(2) = 1.81118$
 $C(3) = 2.77252$
 $C(4) = 2.68536$
 $X(3) = 3.41165$
 $A(3, 3) = 2595.16$
 $A(4, 4) = 973.038$
 $A(4, 5) = 1216.07$
 $A(4, 6) = 1460.22$
 $A(5, 5) = 776.231$
 $A(5, 6') = 933.338$
 $A(5, 6'') = 935.485$
 $A(5, 7') = 1093.13$
 $A(5, 7'') = 1088.97$
 $A(5, 7''') = 1090.41$
 $A(5, 8') = 1247.61$
 $A(5, 8'') = 1248.45$
 $A(5, 9) = 1405.1$
 $A(5, 10) = 1556.29$
 $N(1/2) = 6277$
 $C_0 = 1.86629$
 $A_0/A = 0.556731$
 $A/A_0 = 1.7962$
 $K = 2.3$
 $\nu = 6$
 $C(1) = 1.8138$
 $C(2) = 1.81618$
 $C(3) = 2.77474$
 $C(4) = 2.73259$
 $X(3) = 2.31404$
 $A(3, 3) = 2597.44$
 $A(4, 4) = 973.233$
 $A(4, 5) = 1216.49$
 $A(4, 6) = 1460.14$
 $A(5, 5) = 778.801$
 $A(5, 6') = 934.417$
 $A(5, 6'') = 934.916$
 $A(5, 7') = 1088.62$
 $A(5, 7'') = 1087.89$
 $A(5, 7''') = 1090.79$
 $A(5, 8') = 1243.05$
 $A(5, 8'') = 1244.59$

$A(5, 9) = 1403.22$
 $A(5, 10) = 1556.38$
 $N(1/2) = 6274$
 $C0 = 1.96986$
 $A0/A = 0.48872$
 $A/A0 = 2.04616$
 $K = 2.25$
 $\nu = 6.25$
 $C(1) = 1.8138$
 $C(2) = 1.81574$
 $C(3) = 2.77386$
 $C(4) = 2.71979$
 $X(3) = 1.79908$
 $A(3, 3) = 2596.67$
 $A(4, 4) = 973.152$
 $A(4, 5) = 1216.76$
 $A(4, 6) = 1459.82$
 $A(5, 5) = 780.22$
 $A(5, 6') = 935.153$
 $A(5, 6'') = 933.618$
 $A(5, 7') = 1089.96$
 $A(5, 7'') = 1089.44$
 $A(5, 7''') = 1088.24$
 $A(5, 8') = 1245.26$
 $A(5, 8'') = 1246.81$
 $A(5, 9) = 1403.63$
 $A(5, 10) = 1556.07$
 $N(1/2) = 6283$
 $C0 = 2.08699$
 $A0/A = 0.413607$
 $A/A0 = 2.41775$
 $K = 2.2$
 $\nu = 6.5$
 $C(1) = 1.8138$
 $C(2) = 1.81232$
 $C(3) = 2.77187$
 $C(4) = 2.71534$
 $X(3) = 1.33583$
 $A(3, 3) = 2529.7$
 $A(4, 4) = 948.379$
 $A(4, 5) = 1186.24$
 $A(4, 6) = 1422.79$
 $A(5, 5) = 757.996$
 $A(5, 6') = 911.906$
 $A(5, 6'') = 912.771$
 $A(5, 7') = 1061.54$
 $A(5, 7'') = 1063.61$

A(5, 7''') = 1060.29
A(5, 8') = 1215.58
A(5, 8'') = 1217.07
A(5, 9) = 1364.64
A(5, 10) = 1520.68
N(1/2) = 6270
C0 = 2.20772
A0/A = 0.247436
A/A0 = 4.04145
K = 2.15
nu = 7
C(1) = 1.8138
C(2) = 1.77149
C(3) = 2.70583
C(4) = 2.61452
X(3) = 0.608049

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