

Zn

Source of data: Hultgren [HCP_A3, LIQUID]
 S an Mey (Unpublished) [FCC_A1]
 Kaufman [BCC_A2]

Data for Zn in the form of G-HSER

HCP_A3 (Zn non ideal)

$-7285.787 + 118.470069 T - 23.701314 T \ln(T) - 1.712034E-3 T^2 - 1.264963E-6 T^3$ (298.15 < T < 692.68)
 $-11070.559 + 172.34566 T - 31.38 T \ln(T) + 4.7051E26 T^9$ (692.68 < T < 1700)

LIQUID

$-128.574 + 108.177079 T - 23.701314 T \ln(T) - 1.712034E-3 T^2 - 1.264963E-6 T^3 - 3.5896E-19 T^7$ (298.15 < T < 692.68)
 $-3620.391 + 161.608594 T - 31.38 T \ln(T)$ (692.68 < T < 1700)

BCC_A2

$-4398.827 + 115.959669 T - 23.701314 T \ln(T) - 1.712034E-3 T^2 - 1.264963E-6 T^3$ (298.15 < T < 692.68)
 $-8183.599 + 169.83526 T - 31.38 T \ln(T) + 4.7051E26 T^9$ (692.68 < T < 1700)

FCC_A1

$-4315.967 + 116.900389 T - 23.701314 T \ln(T) - 1.712034E-3 T^2 - 1.264963E-6 T^3$ (298.15 < T < 692.68)
 $-8100.739 + 170.77598 T - 31.38 T \ln(T) + 4.7051E26 T^9$ (692.68 < T < 1700)

Data relative to HCP_A3 (Zn non ideal)

LIQUID

$$7157.213 - 10.29299 T - 3.5896E-19 T^7$$

$$7450.168 - 10.737066 T - 4.7051E26 T^9$$

$$(298.15 < T < 692.68)$$

$$(692.68 < T < 1700)$$

BCC_A2

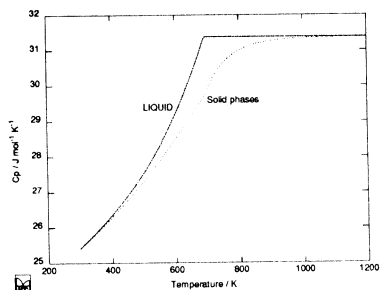
$$2886.96 - 2.5104 T$$

$$(298.15 < T < 1700)$$

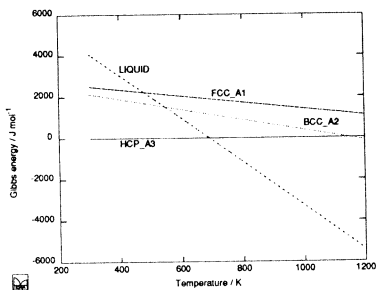
FCC_A1

$$2969.82 - 1.56968 T$$

$$(298.15 < T < 1700)$$



Heat capacity of Zn



Gibbs energy of phases of Zn relative to HCP_A3