

entropy, S

Quantity the change in which is equal to the heat brought to the system in a reversible process at constant temperature divided by that temperature. Entropy is zero for an ideally ordered crystal at 0 K. In statistical thermodynamics $S = k \ln W$, where k is the Boltzmann constant and W the number of possible arrangements of the system.

G.B. 48; 1990, 62, 2187; 1996, 68, 972