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2.51 Intermediate Heat and Mass Transfer
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Table 1: Some Physical Constants*2002 CODATA with (1σ) uncertainty*

Avogadro's number, N_A	$6.0221415 (10) \times 10^{26}$	molecules/kmol
Boltzmann's constant, k_B	$1.3806505 (24) \times 10^{-23}$	J/K
Ideal gas constant, R°	8314.472 (15)	J/kmol·K
Speed of light in vacuum, c	299,792,458 (0)	m/s
Standard acceleration of gravity, g	9.80665 (0)	m/s ²
Stefan-Boltzmann constant, σ	$5.670400 (40) \times 10^{-8}$	W/m ² K ⁴