

Conversion Factors

$$1 \text{ cal} = 4.184 \text{ J}$$

$$1 \text{ eV} = 1.60219 \times 10^{-19} \text{ J}$$

$$1 \text{ Ci} = 3.7 \times 10^{10} \text{ Bq}$$

$$1 \text{ Gy} = 100 \text{ rads}$$

$$1 \text{ Sy} = 100 \text{ rem}$$

$$1 \text{ atm} = 1.01325 \text{ bars} = 1.01325 \times 10^5 \text{ Pa}$$

$$1 \text{ Pa} = 10^{-5} \text{ bar}$$

$$1 \text{ bar} = 10^5 \text{ Pa} = 0.986923 \text{ atm} = 10^6 \text{ dyne cm}^{-2}$$

$$1 \text{ \AA} = 10^{-10} \text{ m} = 10^{-8} \text{ cm}$$

$$1 \text{ mi} = 1609.344 \text{ m}$$

$$1 \text{ in.} = 25.4 \text{ mm} = 2.54 \text{ cm}$$

$$1 \text{ tonne (metric)} = 10^3 \text{ kg}$$

$$1 \text{ short ton} = 2000 \text{ lb} = 907.184 \text{ kg}$$

$$1 \text{ long ton} = 2240 \text{ lb} = 1016.0469 \text{ kg}$$

$$1 \text{ lb (avoirdupois)} = 453.59237 \text{ g}$$

$$1 \text{ oz(troy)} = 31.103486 \text{ g}$$

$$1 \text{ gal (US)} = 3.785 \text{ L}$$

$$1 \text{ gal (Imperial)} = 4.545 \text{ L}$$

$$1 \text{ acre-foot} = 43560 \text{ ft}^3 = 1233.5 \text{ m}^3$$

$$1 \text{ ft}^3 = 7.48 \text{ gal (US)} = 0.028317 \text{ m}^3 = 28.317 \text{ L}$$

$$1 \text{ gallon per minute (gpm)} = 0.06308 \text{ L s}^{-1}$$

$$1 \text{ cubic foot per second (cfs)} = 28.32 \text{ L s}^{-1}$$