LENGTH

1 ft = 0.3048 m

1 ft = 12 in

1 in = 0.0254 m

1 yd = 0.9144 m

VOLUME

1 bbl = 0.158 99 m3

1 ft^3 = 2.8317 x 10^{-2} m^3

1 Imp (UK) gallon = 4.546 L

1 m^3 = 1000 L

1 cm^3 = 1.00 x 10^{-6} m^3

MASS

1 lb = 0.45359 kg

1 (Imperial) ton = 1016.05 kg

PRESSURE

1 psi = 6894.8 Pa

1 mm Hg = 133.3 Pa

1 atm = 101325 Pa

= 14.696 psi

= 760 mm Hg

1 Torr = 133.3 Pa

FORCE

1 dyne = 1.0000 X 10^{-5} N

ENERGY

1 Btu = 1055.1 J

1 cal = 4.1868 J

1 therm = 1.0551 X 108 J

TEMPERATURE

DIFFERENCE:

1 °C = 1 K = 1.8 °R = 1.8 °F

ABSOLUTE: °C = (°F – 32) 5/9

NUMBER OF MOL

1 lb-mol = 453.6 mol

(mol = gmol)

°API Gravity

°API = $\frac{141.5}{SG\frac{60°F}{60°F}} - 131.5$

Note: Please give your answers to the ***same number of significant figures*** as the given data