

Appendix A

CONVERSION TABLE

1. Temperature

To convert from Centigrade to:
 Kelvin, add 273.15
 Rankine, multiply Kelvin by 1.8
 Fahrenheit, multiply Centigrade by 1.8 and add 32

2. Pressure

To convert from psia to:
 kPa, multiply by 6.895
 psig, subtract 14.7
 mm Hg, multiply by 51.71
 atmospheres, divide by 14.7
 bars, divide by 14.508

3. Heat of Vaporization

To convert from kJ/kg to:
 BTU/lb, multiply by 0.43
 cal/gram, multiply by 0.239

4. Density

To convert from g/ml to:
 lb/ft³, multiply by 62.43
 lb/gallon, multiply by 8.345

5. Surface Tension

To convert from dynes/cm to:
 N/m, multiply by 0.001

6. Heat Capacity

To convert from J/g K to:
 BTU/lb R, multiply by 0.239
 cal/gram K, multiply by 0.239

7. Viscosity

To convert from micropoise to:
 lb/ft s, multiply by 0.0672E-06
 centipoise, multiply by 1.0E-04
 poise, multiply by 1.0E-06
 Pa s (Pascal seconds), multiply by 1.0E-07

To convert from centipoise to:
 lb/ft s, multiply by 0.000672
 micropoise, multiply by 10,000
 poise, multiply by 0.01
 Pa s (Pascal seconds), multiply by 0.001

8. Thermal Conductivity

To convert from W/m K to:
 BTU/hr ft R, multiply by 0.5770
 calorie/cm s K, multiply by .002388

9. Enthalpy of Formation

To convert from kJ/mol to:
 kcal/mol, multiply by 0.239

10. Gibbs Energy of Formation

To convert from kJ/mol to:
 kcal/mol, multiply by 0.239

11. Henry's Law Constant for Compound in Water

To convert from atm/mol fraction to:
 atm/(mol/m³), divide by 55,556
 kPa/(mol/m³), divide by 548.295