## Vapor Liquid Equilibria

Compute the vapor-liquid equilibria for a system of methanol and ethanol at 1 atm and plot the x-y diagram for this system. The following Antoine's coefficients may be used:

Compound	B.Pt.	A	В	С
Methanol	337.8 K	5.20409	1581.341	-33.50
Ethanol	351.5 K	5.24677	1598.673	-46.424

Antoine Equation:

$$log_{10}(P) = A - \frac{B}{T+C}$$

where P is the vapor pressure in bars and T is the temperature in K.

Compute the relative volatility at each point chosen to generate the x-y diagram. How close is each value as compared to the average value.