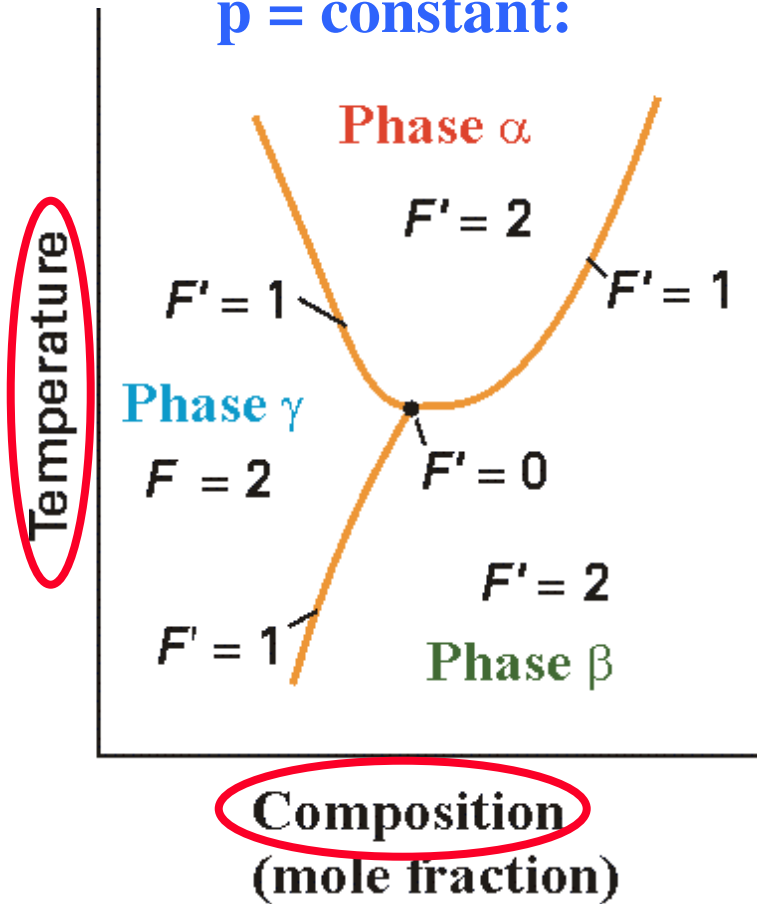


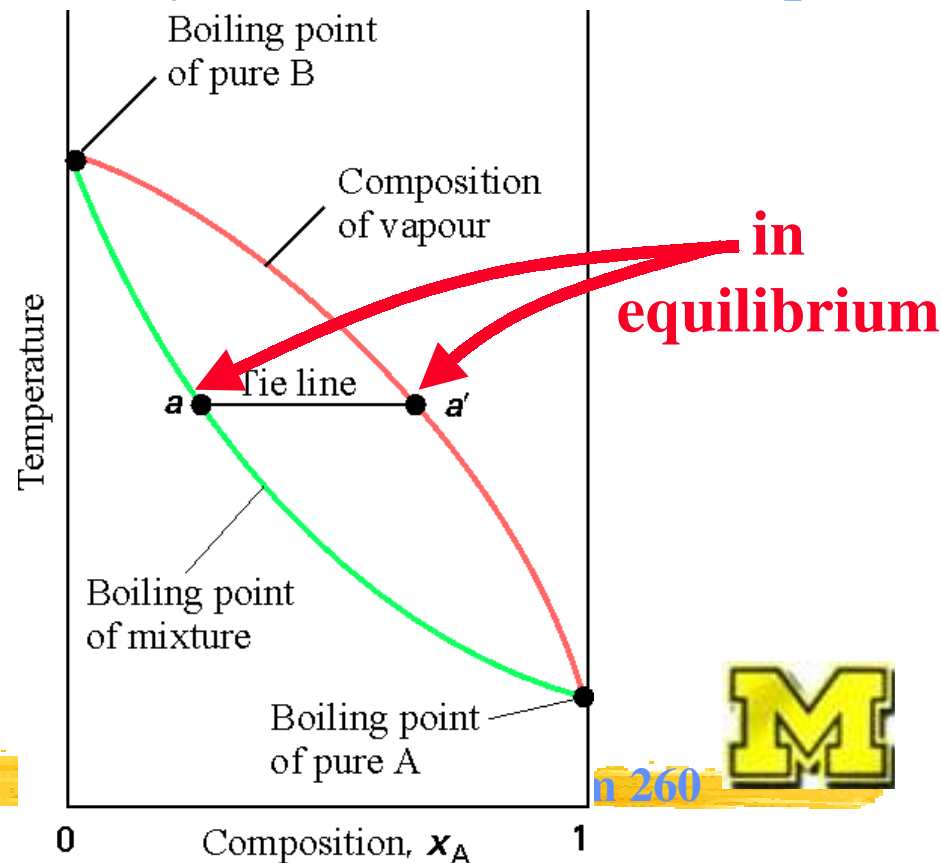
Phase diagrams of binary mixtures

Phase rule: $F = C - P + 2$
 for binary mixtures = 2

p = constant:



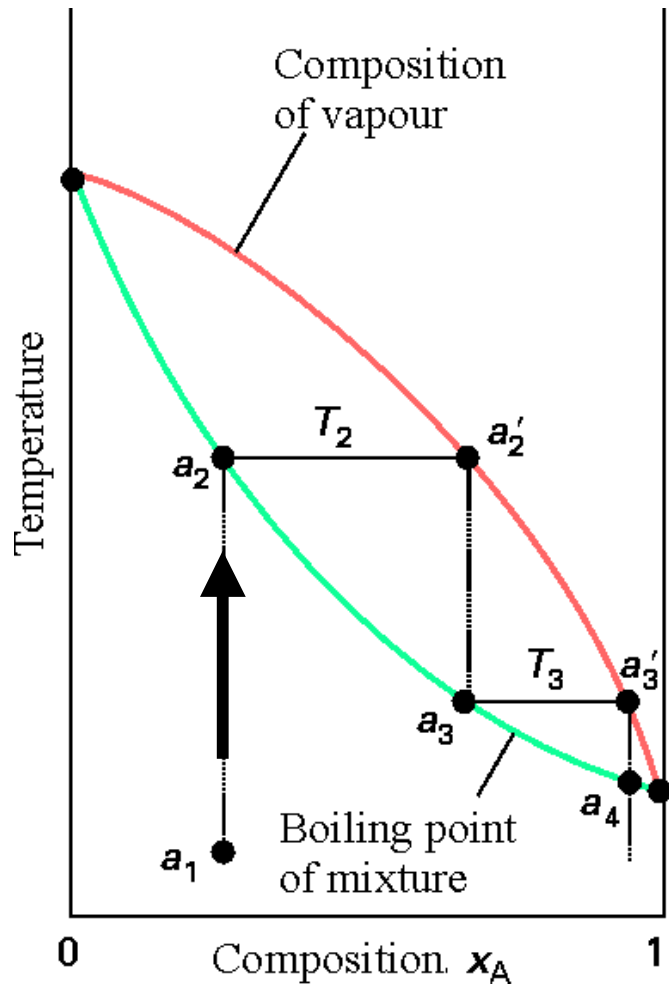
Temperature-composition diagram for binary mixture of volatile liquids



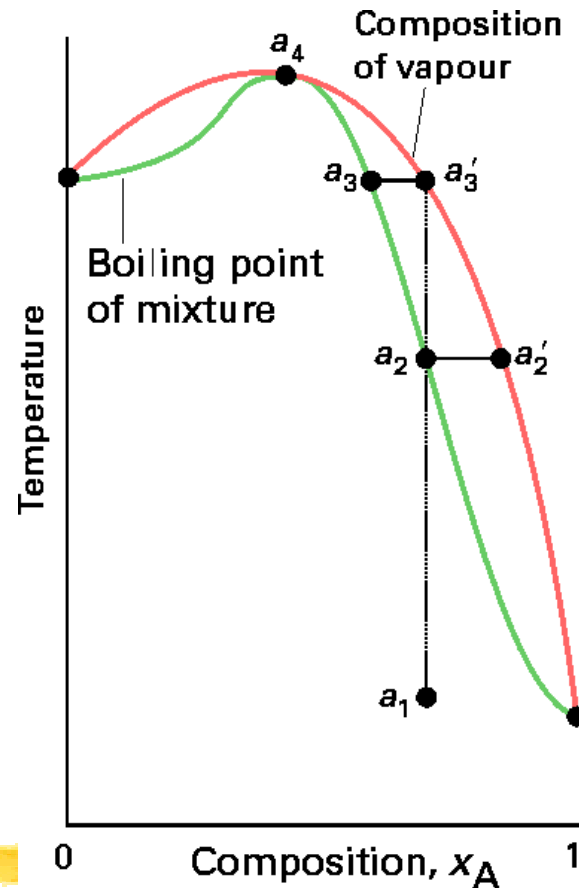
Finally, as promised: Whisky distillery

Non-ideal mixtures

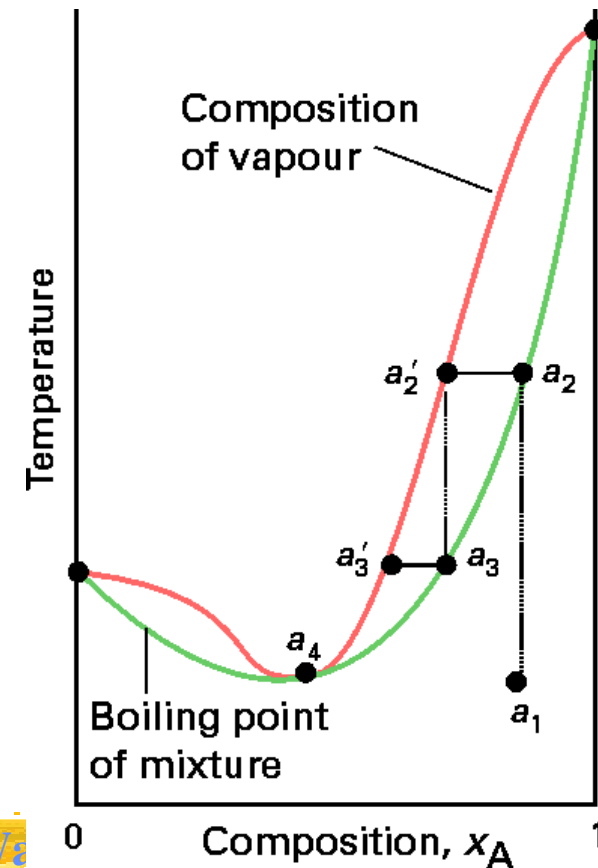
Fractional distillation:



High-boiling azeotrope, e.g., nitric acid/water

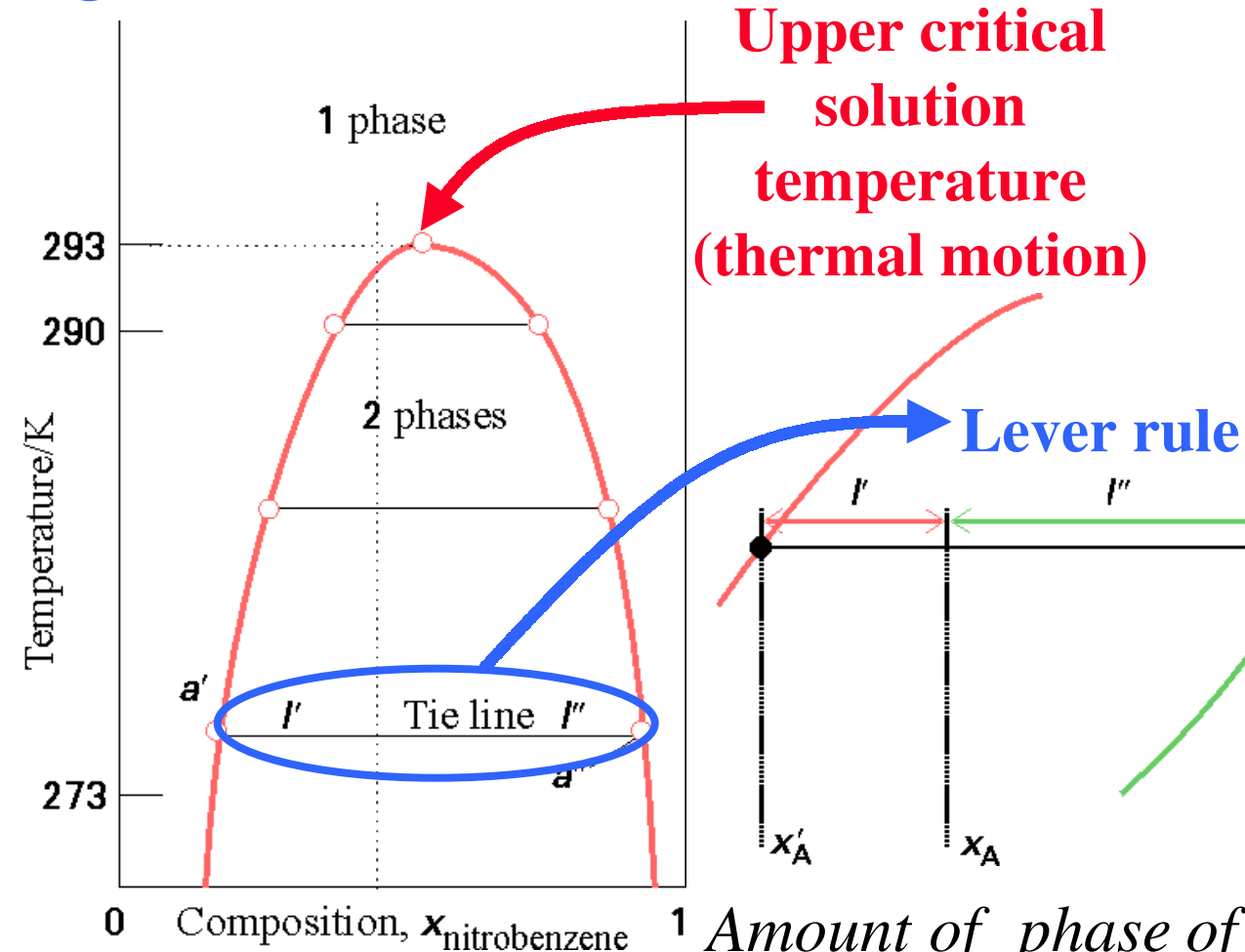


Low-boiling azeotrope, e.g., ethanol/water



Liquid-liquid phase diagrams of partially miscible liquids

E.g., hexane/nitrobenzene:



E.g., triethylamine /water:

