

CHE 305 – Separation Processes
Spring 2010 – In Class on Distillation II

Use the McCabe-Thiele technique to step off stages in a stripping section for the purification of octane from hexane. It is desired to produce a product 95% pure in octane. The stripping section has a partial condenser, a boil-up ratio of 2, and is operated at a uniform pressure of 1 bar. The feed to the column is 100 mol/hr (all liquid). What is the highest possible vapor composition that can exit the top of the stripping section?

(XY Phase Diagram attached)