



Test Tasks - Fluid mixtures properties determination

TEST TASKS

Perform calculations for the following tasks and present them in an engineering report:

- **Task 1:** Determine the temperature, at which the condensed phase of water vapor and ethylene glycol 50/50 mixture will have a composition 70/30 at a pressure of 2 atmospheres. Calculate the thermodynamic and transport properties of the condensate.
- **Task 2:** Determine the pressure in a half-filled tank with propane-butane 80/20 mixture (liquid phase) at a temperature of 300 K and the composition of the gas phase.

Note: any unspecified value should be estimated and justified.