

Quiz 2- Biomass

1. What are the parameters which must always be specified for a user-defined conventional solid?

- A** Molecular weight, solid enthalpy of formation
- B** Solid heat capacity, solid molar volume, temperature of fusion
- C** Molecular weight, solid enthalpy of formation, solid heat capacity, solid molar volume
- D** Temperature of fusion, solubility in water, solid molar volume, molecular weight
- E** Molecular weight, solid Gibbs energy of formation, solid heat capacity, solid molar volume

2. What are the reagents for the Organosolv process, apart from biomass?

- A** Water and ethanol
- B** A homogeneous catalyst, like sulfuric acid
- C** An organic solvent, like ethanol
- D** Water, a homogeneous catalyst and an organic solvent
- E** Water, a heterogeneous catalyst and an organic solvent

3. What is the equation used to calculate the vapour pressure (parameter PLXANT)?

- A** Extended Antoine Equation
- B** Wagner Vapor Pressure Equation
- C** PPDS Modified Wagner Vapor Pressure Equation
- D** IK-CAPE Vapor Pressure Equation
- E** NIST TDE Polynomial for Liquid Vapor Pressure

4. The tab "CI Solid" doesn't appear when I create a new material flow, what should I do?

- A** Create a new simulation from a different template
- B** Change the Steam class in the Setup of the Simulation
- C** Add all my components in the Mixed tab

5. I made a mistake when entering the solid heat of formation of cellulose, how can I most efficiently fix it?

- A** Delete the compound and start again
- B** Ask my TA to do it for me
- C** Type the corrected value in the REVIEW tab
- D** Type the corrected value in the USERDEF tab