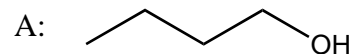


7. A simple distillation is performed on a 50:50 mix of A and B (shown).  
What is the best description of the the likely outcome?



Pure A is collected followed by pure B

Pure B is collected followed by pure A

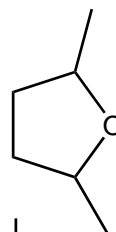
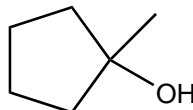
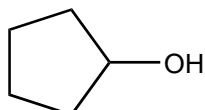
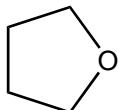
Impure yet predominantly A is collected first that gradually becomes less pure

Impure yet predominantly B is collected first that gradually becomes less pure

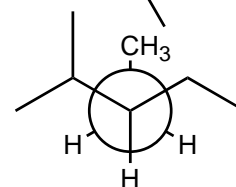
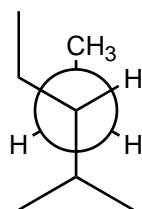
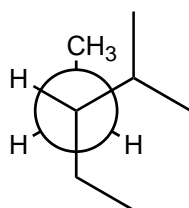
Impure yet predominantly A is collected first that gradually becomes more pure

Impure yet predominantly B is collected first that gradually becomes more pure

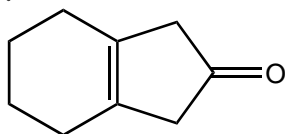
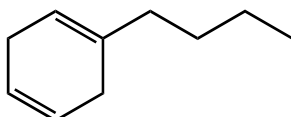
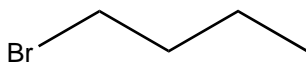
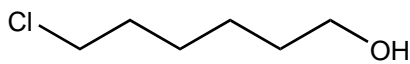
8. Which compound has the greatest solubility in water?



9. Which is most stable?



10. Which is the most likely structure that matches the mass spectrum shown?



11. Which is the most likely structure for the infrared spectrum shown?

