

Some Properties of Liquids

1. What is viscosity?
2. What is surface tension
3. What is capillarity
4. Order the following from lowest to highest viscosity?

Dimethyl ether (CH_3OCH_3)

Ethylene glycol ($\text{CH}_2\text{OHCH}_2\text{OH}$)

Water (H_2O)

Ethanol ($\text{CH}_3\text{CH}_2\text{OH}$)

Acetone $\begin{array}{c} \text{O} \\ || \\ \text{CH}_3\text{CCH}_3 \end{array}$

5. Explain why mercury has a convex meniscus when in a glass tube.

6. Which has the smallest surface tension?

Dimethyl ether (CH_3OCH_3)

Ethylene glycol ($\text{CH}_2\text{OHCH}_2\text{OH}$)

Water (H_2O)

Ethanol ($\text{CH}_3\text{CH}_2\text{OH}$)

Acetone $\begin{array}{c} \text{O} \\ || \\ \text{CH}_3\text{CCH}_3 \end{array}$