

7. Numerical response question

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Left justify your answer in the boxes provided.

Liz has four unlabelled bottles that contain one of the following: ethane, ethanol, ethyl ethanoate or Ethanoic acid. Liz tests the four solutions and has the following observations.

Compound	Solubility in water	Boiling Point	Odor
1	Not soluble	-89 °C	Odorless
2	Somewhat soluble	77 °C	Sweet
3	Highly soluble	78 °C	Sharp, antiseptic smell
4	Highly soluble	118 °C	Sharp vinegar smell

Using Liz's observations, the compounds are:

_____, _____, _____, _____
Ethane Ethanoic acid Ethyl ethanoate Ethanol

Solutions:

1. A
2. A
3. C
4. A
5. D
6. A
7. 1423