

Use the reaction below to answer the following questions.



41. The reaction shown is a polymerization reaction. What is a polymerization reaction?
42. One of the monomers in the above reaction is adipic acid. What category of compound is this substance? How can you tell?
43. What does the term structural unit of a polymer mean?
44. What is the structural unit of the polymer represented in the above reaction?
45. The polymer produced is called *nylon-6,6*. What is the name for the functional group that has formed in the polymer product?
46. What type of polymerization reaction is shown: an addition polymerization or a condensation polymerization? Explain.
47. What is the by-product of the reaction?

Four unknown, unlabeled hydrocarbons, W, X, Y, and Z, have been given to a chemistry student to identify. All of the compounds contain a chain of three carbon atoms per molecule. One of the molecules is an alcohol, another an aldehyde, another an amine, and the remaining one is a carboxylic acid. The student carries out various experiments to find out about some of the properties of each compound, which he will use to determine the identities of the compounds. The information he collects is summarized in the table below. Use the data to answer the questions that follow.

Property	Unknown W	Unknown X	Unknown Y	Unknown Z
Odor	Pungent, irritating	Pungent, nonirritating	Sharp, rancid	Amines-like
Boiling point (°C)	40	27	12	40
Solubility in water	Somewhat soluble	Completely miscible	Completely miscible	Somewhat soluble
Reaction with NaOH solution	Neutral	Neutral	Acidic	Basic

48. On the basis of the results of his solubility study, the student concludes that Y is the carboxylic acid. He claims to be unable to derive any further conclusions from the solubility tests. Comment on his conclusion.

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YCT Expert Team

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