

Lipids Worksheet

1. Use the following word bank to complete statements below:

polyunsaturated

insoluble

four

glycerol

phosphate group

monounsaturated

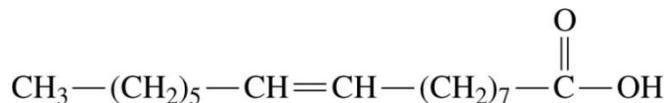
sphingolipids

amphipathic

esters

- Natural fats (triglycerides) are three fatty acid chains attach to a _____ molecule.
- Lipids are _____ molecules that are _____ in the water.
- Phospholipids are modified triglycerides that have one fatty acid chain replaced by a _____.
- Fatty acids with two or more double bonds are _____.
- Animal fats and vegetable oils are natural _____.
- _____ lipids contain a sphingosine backbone.
- Cholesterol molecules have _____ fused hydrocarbon rings.
- Fatty acids with one double bond are _____.

2. Palmitoleic acid is a fatty acid with the following condensed structural formula:



- How many carbon atoms are in palmitoleic acid?
- Is the fatty acid saturated, monounsaturated, or polyunsaturated?

Answers

1.

- a. glycerol
- b. amphipathic, insoluble
- c. phosphate group
- d. polyunsaturated
- e. esters
- f. sphingolipids
- g. four
- h. monounsaturated

2.

- a. 16
- b. monounsaturated