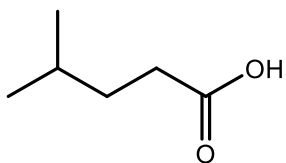


## Carbonyl Functional Groups Worksheet

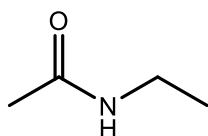
1. Identify the class of compound represented in the following molecules.

a.



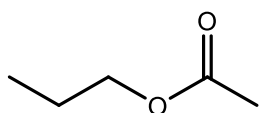
---

b.



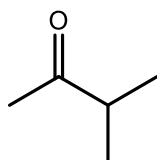
---

c.



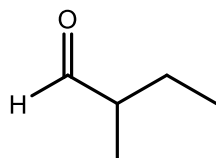
---

d.



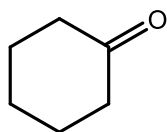
---

e.



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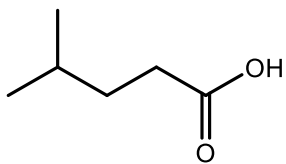
f.



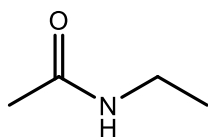
---

2. Give the IUPAC name of the molecules from problem 1.

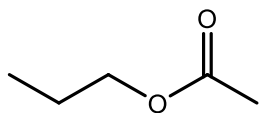
a.



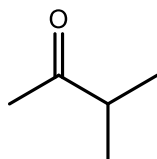
b.



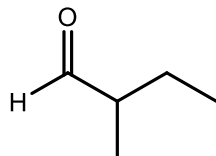
c.



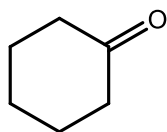
d.



e.



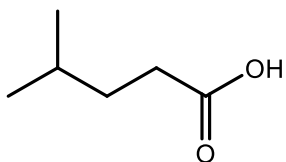
f.



## ANSWER KEY

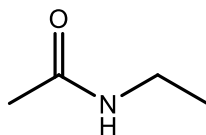
1. Identify the class of compound represented in the following molecules.

a.



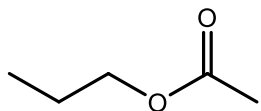
**carboxylic acid**

b.



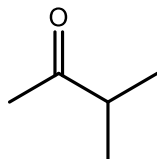
**amide**

c.



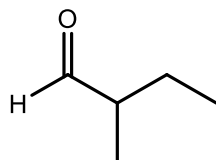
**ester**

d.



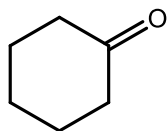
**ketone**

e.



**aldehyde**

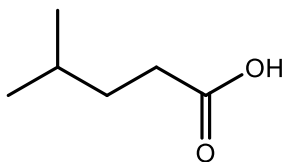
f.



**ketone**

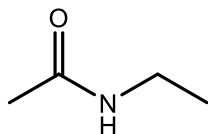
2. Give the IUPAC name of the molecules from problem 1.

a.



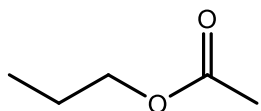
**4-methylpentanoic acid**

b.



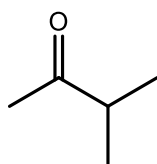
**N-ethylethanamide**

c.



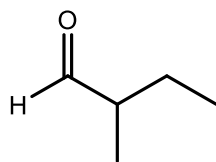
**propyl ethanoate**

d.



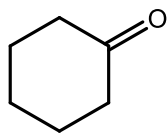
**3-methyl-2-butanone**

e.



**2-methylbutanal**

f.



**cyclohexanone**