

1. The molecular formula of pentanoic acid is



2. When _____ reacts with NaOH, the product is sodium benzoate

A. benzoic acid

B. benzene

C. benzaldehyde

D. benzoic hydroxide

3. Esterification is the reaction of a(n) _____ with an alcohol.

A. amide

B. carboxylic acid

C. ester

D. amine

4. The name of $CH_3CH_2CH_2\overset{O}{\parallel}CO-$  is

A. butyl cyclobutanoate

B. cyclobutyl butanoate

C. cyclobutanoate

D. cyclic butanoate

5. The molecular formula of ethyl acetate is



6. The base hydrolysis of an ester is called

A. esterification

B. saponification

C. hydrolysis

D. neutralization

7. What is the name for  ?

A. triisopropylamine

B. ethylpropylamine

C. isopropyl dipropylamine

D. diethylisopropylamine

8. When methylamine reacts with HCl the product is

A. methylammonia

B. methylammonium chloride

C. methane and methylchloride

D. methanoate chloride

9. The name of $CH_3-CH_2-CH_2-CH_2-\overset{O}{\parallel}C-NH-$  is

A. *N,N*-ethylpentanamideB. *N,N*-isopropylpentanamineC. *N*-ethylpentanamideD. *N*-isopropylpentanamide

10. The missing chemical in the reaction (acetamide + sodium hydroxide \rightarrow ? + ammonia) is

A. primary amine

B. secondary amine

C. acetic acid

D. sodium acetate

Multiple Choice Questions Unit Chem 100

Marcel A. Müller



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