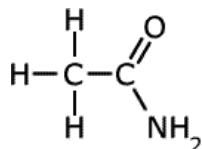


## Exercise 9.15 – Nomenclature HL

**Q915-01** Which of the following is the correct name for the structure shown:



- A. methanamide
- B. ethylamine
- C. methylamine
- D. ethanamide

**Q915-02** Which molecule contains a total of three carbon atoms?

- A. propanonitrile
- B. butanonitrile
- C. methylpropanamide
- D. methylpropanonitrile

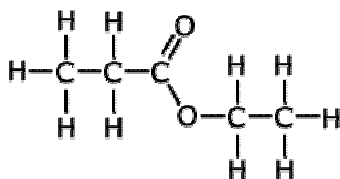
**Q915-03** Which compound is not considered to be an acid derivative?

- A. ester
- B. ether
- C. nitrile
- D. amide

**Q915-04** Which is a member of the same homologous series as CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>?

- A. CH<sub>3</sub>CH<sub>2</sub>NH<sub>2</sub>
- B. CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CONH<sub>2</sub>
- C. CH<sub>3</sub>CH=CHNH<sub>2</sub>
- D. NH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>

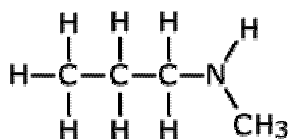
**Q915-05** What is the IUPAC name for the following compound?



- A. pentanoic acid
- B. propyl ethanoate
- C. ethyl propanoate
- D. ethoxypropane

### Exercise 9.15 – Nomenclature HL

**Q915-06** What is the correct name of the compound whose structure is shown below?



- A. methyl propyl amine
- B. N-propyl methylamine
- C. N-methylpropylamine
- D. butylamine

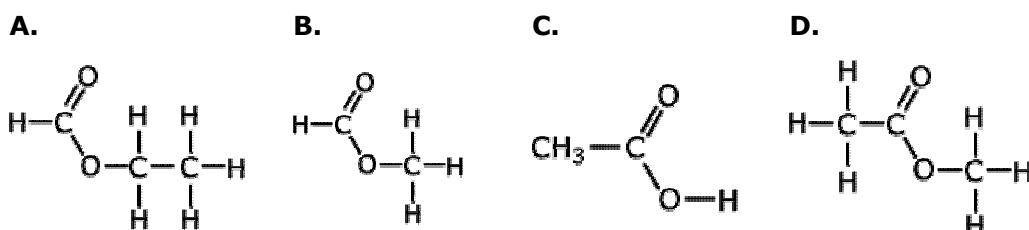
**Q915-07** Glycine is one of the 20 common amino acids. It has the condensed formula  $\text{NH}_2\text{CH}_2\text{COOH}$ . Which of the following is the correct systematic name for glycine?

- A. ethanoic acid amine
- B. aminoethanoic acid
- C. methanoic acid amide
- D. amidoethanoic acid

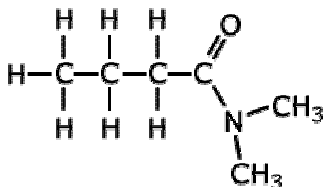
**Q915-08** Lysine is another common amino acid with the systematic name 2,6-diaminohexanoic acid. Which one of the following shows the correct condensed formula?

- A.  $\text{H}_2\text{N}(\text{CH}_2)_5\text{CH}(\text{NH}_2)\text{COOH}$
- B.  $\text{H}_2\text{N}(\text{CH}_2)_4\text{CH}(\text{NH}_2)\text{COOH}$
- C.  $\text{CH}_3(\text{H}_2\text{N})(\text{CH}_2)_3\text{CH}(\text{NH}_2)\text{COOH}$
- D.  $\text{CH}_2(\text{NH}_2)\text{CH}_2\text{CH}_2\text{CH}(\text{NH}_2)\text{CH}_2\text{COOH}$

**Q915-09** Which of the following shows the correct structure of the ester methyl methanoate?



**Q915-10** What is the systematic name of the molecule whose structure is shown below?



- A. hexanamide
- B. dimethylbutanoic acid
- C. N,N-dimethylbutanamide
- D. N-butanoyldimethyl