

IUPAC Naming MCQs



Here are 30 MCQs on IUPAC names of alkanes, alkenes, alkynes, alcohols, aldehydes, ketones, and carboxylic acids:

Multiple Choice Questions (MCQs)

Alkanes

1. What is the IUPAC name of C_3H_8 ?
 - A) Ethane
 - B) Propane
 - C) Butane
 - D) Pentane
2. The IUPAC name of C_5H_{12} is:
 - A) Methane
 - B) Butane
 - C) Pentane
 - D) Hexane
3. What is the IUPAC name for an alkane with the molecular formula C_4H_{10} ?
 - A) Methane
 - B) Ethane
 - C) Butane
 - D) Propane

Alkenes

4. What is the IUPAC name of $CH_2=CH_2$?
 - A) Ethane
 - B) Ethene
 - C) Ethyne
 - D) Methene
5. The IUPAC name of C_3H_6 is:
 - A) Propane
 - B) Propene
 - C) Propyne
 - D) Butene
6. What is the IUPAC name for an alkene with the molecular formula C_4H_8 ?
 - A) Butane
 - B) Butene
 - C) Butyne
 - D) Propene

Alkynes

7. What is the IUPAC name of C_2H_2 ?
- A) Ethane
 - B) Ethene
 - C) Ethyne
 - D) Methyne
8. The IUPAC name of C_3H_4 is:
- A) Propane
 - B) Propene
 - C) Propyne
 - D) Butyne
9. What is the IUPAC name for an alkyne with the molecular formula C_4H_6 ?
- A) Butane
 - B) Butene
 - C) Butyne
 - D) Propene

Alcohols

10. What is the IUPAC name of CH_3OH ?
- A) Methanol
 - B) Ethanol
 - C) Propanol
 - D) Butanol
11. The IUPAC name of C_2H_5OH is:
- A) Methanol
 - B) Ethanol
 - C) Propanol
 - D) Butanol
12. What is the IUPAC name for an alcohol with the molecular formula C_3H_7OH ?
- A) Methanol
 - B) Ethanol
 - C) Propanol
 - D) Butanol

Aldehydes

13. What is the IUPAC name of $HCHO$?
- A) Formaldehyde
 - B) Acetaldehyde
 - C) Propanal
 - D) Butanal
14. The IUPAC name of CH_3CHO is:
- A) Formaldehyde
 - B) Acetaldehyde
 - C) Propanal
 - D) Butanal
15. What is the IUPAC name for an aldehyde with the molecular formula C_3H_6O ?
- A) Formaldehyde
 - B) Acetaldehyde
 - C) Propanal

- D) Butanal

Ketones

16. What is the IUPAC name of CH_3COCH_3 ?

- A) Acetone
- B) Propanone
- C) Butanone
- D) Pentanone

17. The IUPAC name of $\text{C}_4\text{H}_8\text{O}$ is:

- A) Acetone
- B) Propanone
- C) Butanone
- D) Pentanone

18. What is the IUPAC name for a ketone with the molecular formula $\text{C}_5\text{H}_{10}\text{O}$?

- A) Acetone
- B) Propanone
- C) Butanone
- D) Pentanone

Carboxylic Acids

19. What is the IUPAC name of HCOOH ?

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Butanoic acid

20. The IUPAC name of CH_3COOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Butanoic acid

21. What is the IUPAC name for a carboxylic acid with the molecular formula $\text{C}_3\text{H}_6\text{O}_2$?

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Butanoic acid

Mixed Compounds

22. What is the IUPAC name of $\text{C}_2\text{H}_5\text{CHO}$?

- A) Propanal
- B) Acetone
- C) Propanol
- D) Butanal

23. The IUPAC name of $\text{CH}_3\text{CH}_2\text{OH}$ is:

- A) Methanol
- B) Ethanol
- C) Propanol
- D) Butanol

24. What is the IUPAC name for a compound with the molecular formula C_4H_9OH ?
- A) Methanol
 - B) Ethanol
 - C) Propanol
 - D) Butanol
25. What is the IUPAC name of CH_3CH_2COOH ?
- A) Formic acid
 - B) Acetic acid
 - C) Propanoic acid
 - D) Butanoic acid
26. The IUPAC name of C_3H_7CHO is:
- A) Formaldehyde
 - B) Acetaldehyde
 - C) Propanal
 - D) Butanal
27. What is the IUPAC name for a compound with the molecular formula C_3H_7OH ?
- A) Methanol
 - B) Ethanol
 - C) Propanol
 - D) Butanol
28. What is the IUPAC name of $CH_3CH_2CH_2COOH$?
- A) Formic acid
 - B) Acetic acid
 - C) Propanoic acid
 - D) Butanoic acid
29. The IUPAC name of $CH_3COCH_2CH_3$ is:
- A) Acetone
 - B) Propanone
 - C) Butanone
 - D) Pentanone
30. What is the IUPAC name for a compound with the molecular formula C_4H_9CHO ?
- A) Formaldehyde
 - B) Acetaldehyde
 - C) Propanal
 - D) Butanal

- 13. A
- 14. B
- 15. C
- 16. B
- 17. C
- 18. D
- 19. A
- 20. B
- 21. C
- 22. A
- 23. B
- 24. D
- 25. C
- 26. D
- 27. C
- 28. D
- 29. C
- 30. D

Answer Key

- 1. B
- 2. C
- 3. C
- 4. B
- 5. B
- 6. B
- 7. C
- 8. C
- 9. C
- 10. A
- 11. B
- 12. C