

## **Amines Quiz PDF**

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What is the general formula for a primary amine?
<ul><li>○ RNH2</li><li>○ R2NH</li><li>○ R3N</li><li>○ R4N+</li></ul>
Which of the following is a primary amine?
<ul><li>Dimethylamine</li><li>Ethylamine</li><li>Trimethylamine</li><li>Aniline</li></ul>
Which of the following are true about quaternary ammonium compounds? (Select all that apply)
<ul> <li>They have a positive charge.</li> <li>They are neutral.</li> <li>They are formed by replacing all hydrogen atoms in ammonia.</li> <li>They are typically used as surfactants.</li> </ul>
Which reactions can amines undergo? (Select all that apply)
<ul><li>Nucleophilic substitution</li><li>Acylation</li><li>Esterification</li><li>Reduction</li></ul>

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Explain the difference between primary, secondary, and tertiary amines in terms of structure.



Outline the process of synthesizing an amine from a nitro compound.	
outline the process of synthesizing an annine from a finite compound.	
Mhat are the eafaty presentions presently when bondling emisses in a laboratory catting?	
What are the safety precautions necessary when handling amines in a laboratory setting?	
Discuss the environmental impact of amines and how they can be managed.	
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Which of the following is the least basic amine in aqueous solution?	
<b>3</b>	
○ methylamine	
Dimethylamine	
) Limetoviaminė	

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○ Trimethylamine	
○ Aniline	
How does the basicity of amines compare to ammonia, and what factors	s influence their basicity?
What are the characteristics of amines? (Select all that apply)	
☐ They have a trigonal planar shape.	
They can form hydrogen bonds.	
They are generally basic.	
☐ They are always aromatic.	
Which spectroscopic methods can identify amines? (Select all that app	ly)
☐ Infrared Spectroscopy	
☐ NMR Spectroscopy	
UV-Vis Spectroscopy	
Describe the role of amines in biological systems, providing at least two	o examples.
What type of reaction is involved when an amine reacts with an acyl chl	oride?
○ Alkylation	
○ Acylation	

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<ul><li>○ Nitration</li><li>○ Reduction</li></ul>
Which of the following amines is most likely to have a fishy odor?
<ul><li>methylamine</li><li>Aniline</li><li>Benzylamine</li><li>Cyclohexylamine</li></ul>
What is the IUPAC name for CH3NH2?
<ul><li>Methylamine</li><li>Methanamine</li><li>Aminomethane</li><li>Methanamide</li></ul>
Which of the following amines are used in neurotransmitters? (Select all that apply)
<ul><li>□ Dopamine</li><li>□ Serotonin</li><li>□ Adrenaline</li><li>□ Histamine</li></ul>
Which of the following are secondary amines? (Select all that apply)
<ul><li>□ Diethylamine</li><li>□ Methylamine</li><li>□ Piperidine</li><li>□ Triethylamine</li></ul>
Which of the following is a quaternary ammonium compound?
<ul><li>Ammonia</li><li>Tetraethylammonium chloride</li><li>Ethylamine</li><li>Aniline</li></ul>

Which of the following amines is most soluble in water?



<ul><li>Aniline</li></ul>
<ul> <li>Trimethylamine</li> </ul>
<ul><li>Butylamine</li></ul>
<ul> <li>Ethylamine</li> </ul>

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