

Chapter 23 - Amines

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Structure and Classification

- Amines are derivatives of ammonia in which one or more hydrogens are replaced by alkyl or aryl groups. They can be classified as primary, secondary, or tertiary depending on the number of carbon atoms bonded directly to nitrogen.
- Amines can be further classified into aliphatic (carbons are derived from alkyl groups) or aromatic (aryl group bonded to nitrogen).
- An amine that has the nitrogen part of a ring is called a heterocyclic amine. If the nitrogen is part of the aromatic ring, it's called a heterocyclic aromatic amine.

Nomenclature

- Systematic names
 - ✗ Systematic names for aliphatic amines are derived just like they are for alcohols (drop the *-e* end of the parent alkane and replace it with *-amine*.)

