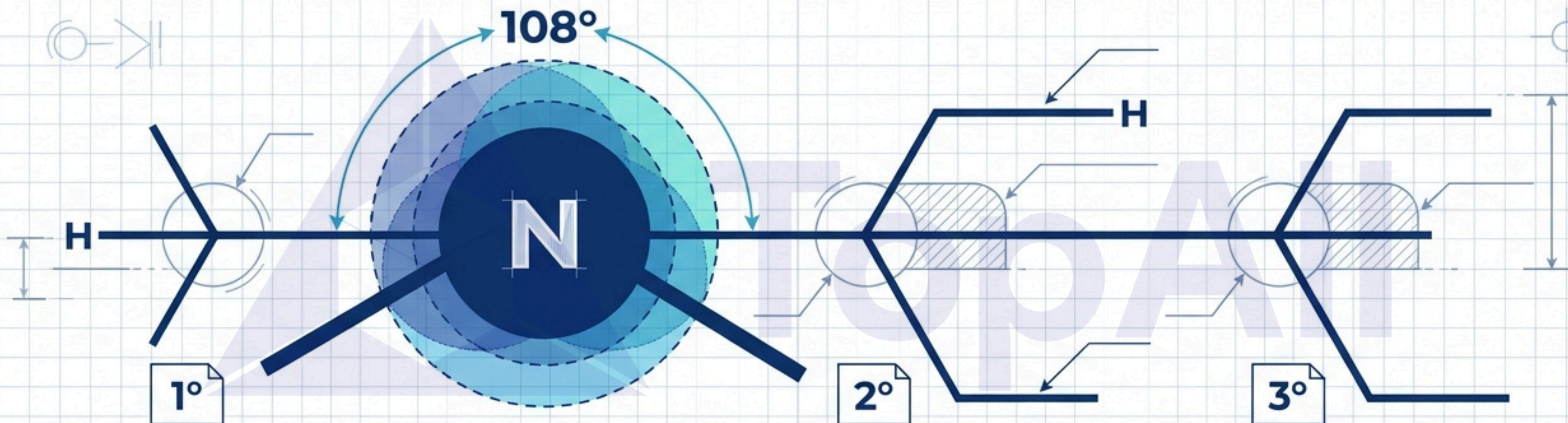


9.3 NOMENCLATURE OF AMINES



KEY TAKEAWAYS

Common System: Functional grouping based on alkyl chains.

IUPAC System: Standardized alkanamine parent chains.

The Common Naming System



For symmetric 2°/3° amines,
append the prefix "di" or "tri".

[Alkyl group]

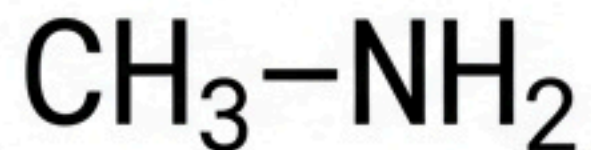
+

amine

=

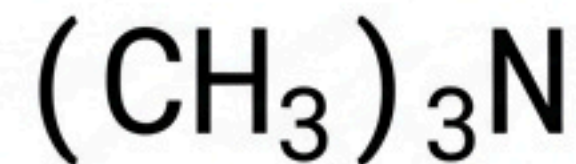
Alkylamine

Simple Assembly



Methyl + amine = Methylamine

Multiple Symmetric Groups



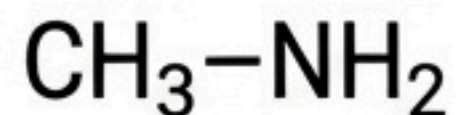
Tri + methyl + amine = Trimethylamine

IUPAC Naming: Primary Amines

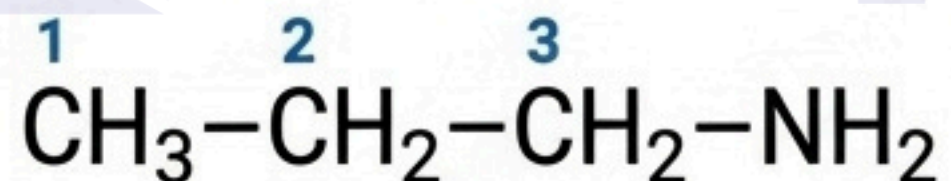
~~Alkane~~ → Alkan + amine = Alkanamine

Rule Card

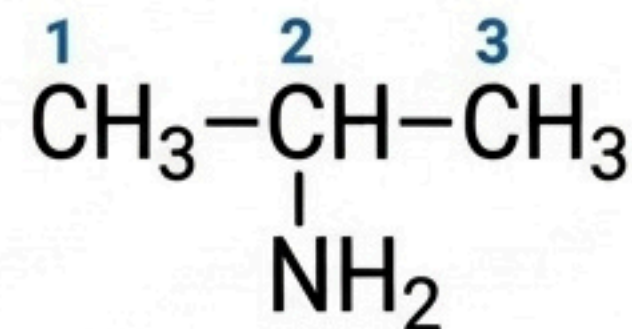
Number the longest carbon chain starting from the end nearest to the -NH_2 group.



Methanamine



Propan-**1**-amine



Propan-**2**-amine



**You've Learned the Theory.
Let's Test Them Now.**

$$E=mc^2$$



Turn theory into marks with **unlimited MCQs, smart analysis, and focused revision.**

Practice Now



At prep.topall.app

Key Highlights

- » Free Study Material, Videos & Infographics
- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter

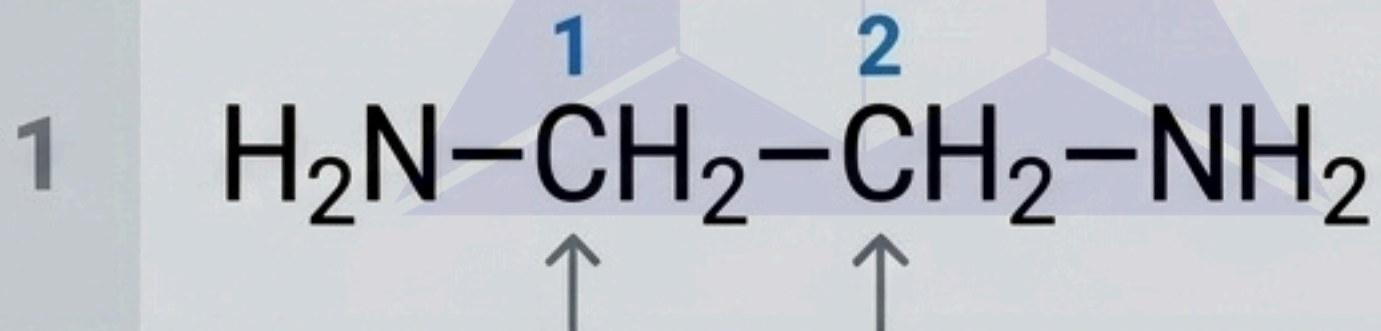


Diamines & Polyamines

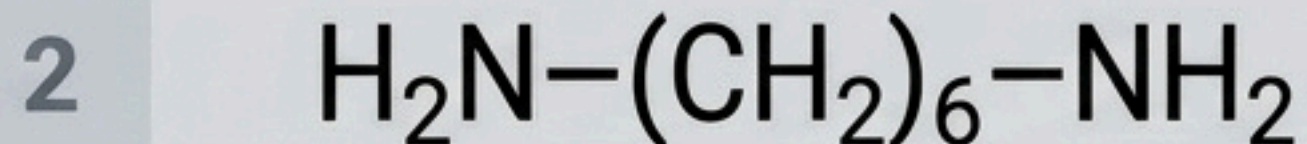
Alkane + [locants] + diamine

 **Caution Badge**

Do NOT drop the 'e' from the alkane name when using di/tri suffixes.



Ethane-1,2-diamine



Hexane-1,6-diamine

Secondary & Tertiary Amines

Step 1

Identify the longest carbon chain attached to Nitrogen
= Parent Alkanamine.



Step 2

Identify other shorter groups attached directly to Nitrogen
= Substituents.



Step 3

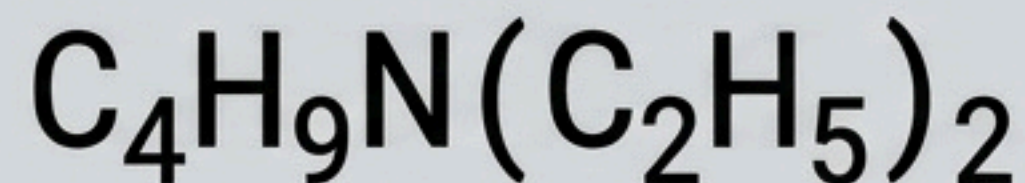
Use the uppercase **N**-locant for each substituent.



Parent
(Ethyl)

Substituent
(Methyl)

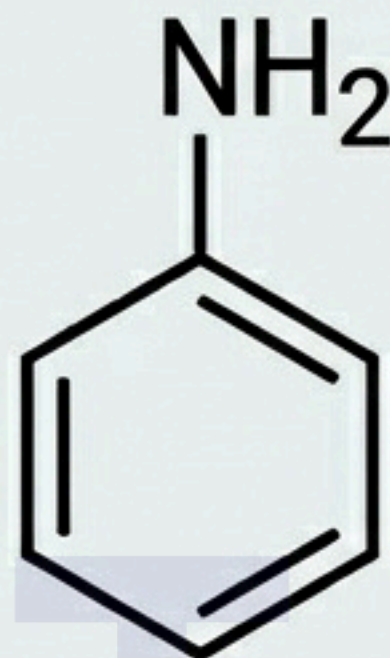
N-Methylethanamine



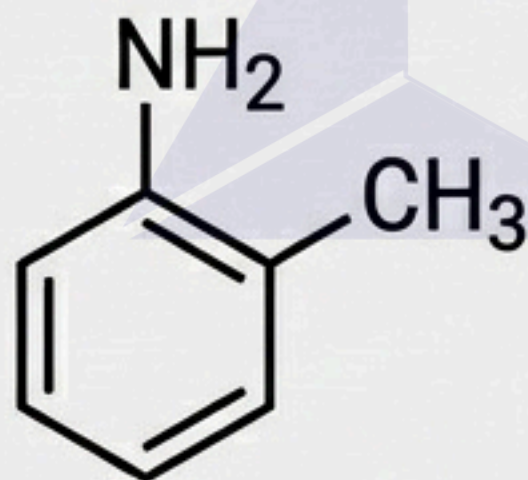
N,N-Diethylbutan-**1**-amine

Arylamines: Naming Aromatic Rings

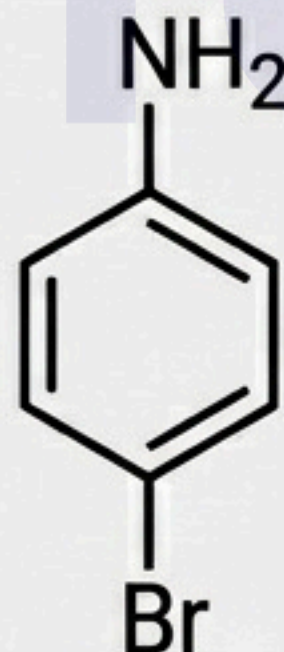
'**Aniline**' is both the Common Name and a fully accepted IUPAC name.



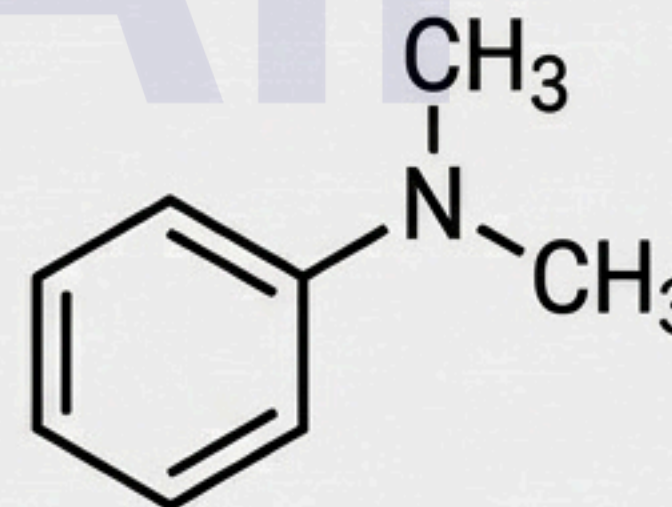
Arene - 'e' + amine
= Benzenamine



2-Methylaniline
(o-Toluidine)



4-Bromobenzenamine



N,N-Dimethylbenzenamine

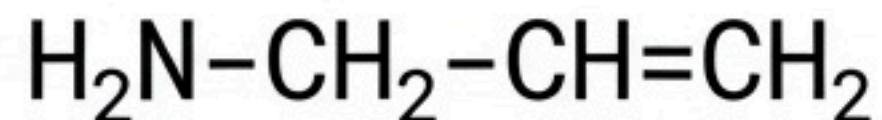
Master Nomenclature Grid

1°



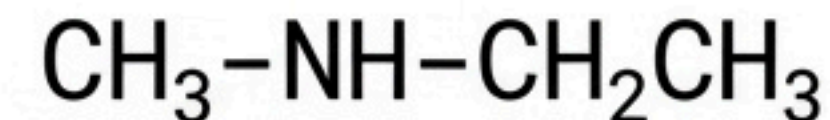
Common: Ethylamine
IUPAC: Ethanamine

1° Alkene



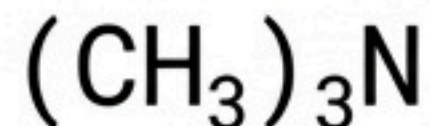
Common: Allylamine
IUPAC: Prop-2-en-1-amine

2°



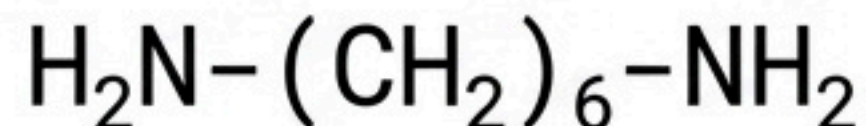
Common: Ethylmethanamine
IUPAC: N-Methylethanamine

3°



Common: Trimethylamine
IUPAC: N,N-Dimethylmethanamine

Poly



Common: Hexamethylenediamine
IUPAC: Hexane-1,6-diamine

Aryl



Common: N,N-Dimethylaniline
IUPAC: N,N-Dimethylbenzenamine



You've Learned the Theory.

Now Let's Test It.

Reading notes gets you knowledge.

Practicing MCQs gets you marks.

That's exactly what TopAll Pro is built for.

Try TopAll Pro Now

What TopAll Pro Does Differently

-  **Stuck? Snap it. Solve it. — Doubts AI**
Photo → step-by-step solution in seconds, 24/7
-  **Your AI Coach finds your blind spots**
Concept-level weakness detection — not just chapter-level
-  **4.5 Lakh+ questions. Never run out.**
13× more content than any other prep app in India
-  **Build your own test in 60 seconds**
Pick a chapter, set difficulty — AI does the rest instantly.
-  **AI Recommendation that helps you improve**
AI Recommendation Analysis your Tests and tell you where you need to improve.



Practice the moment you finish studying
Jump in while the concept is still fresh in your head

4.5L+
MCQs

1.5L+
Students

AI Powered
In-Depth Analysis