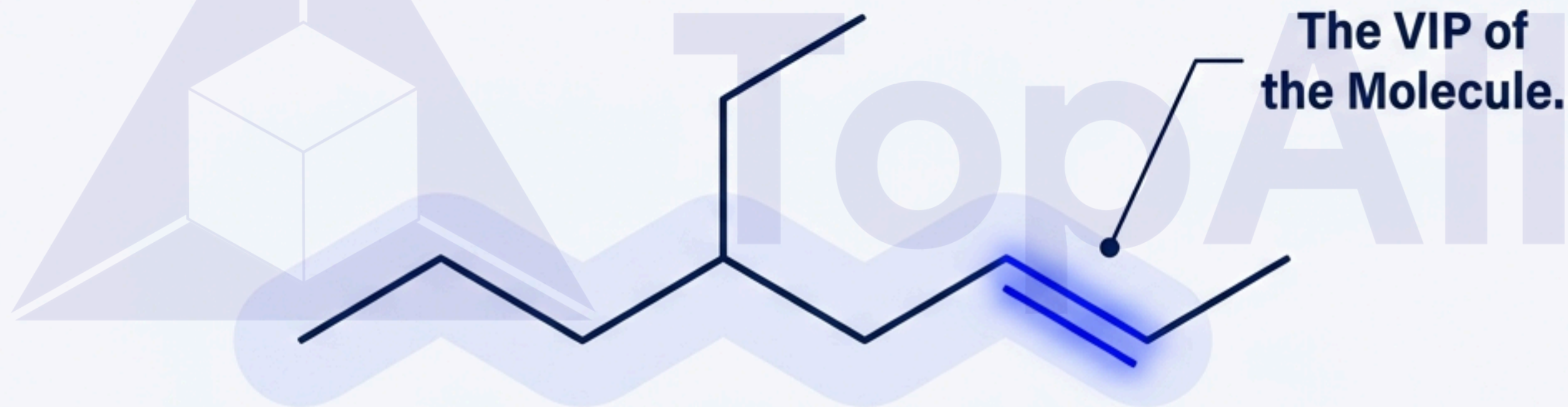
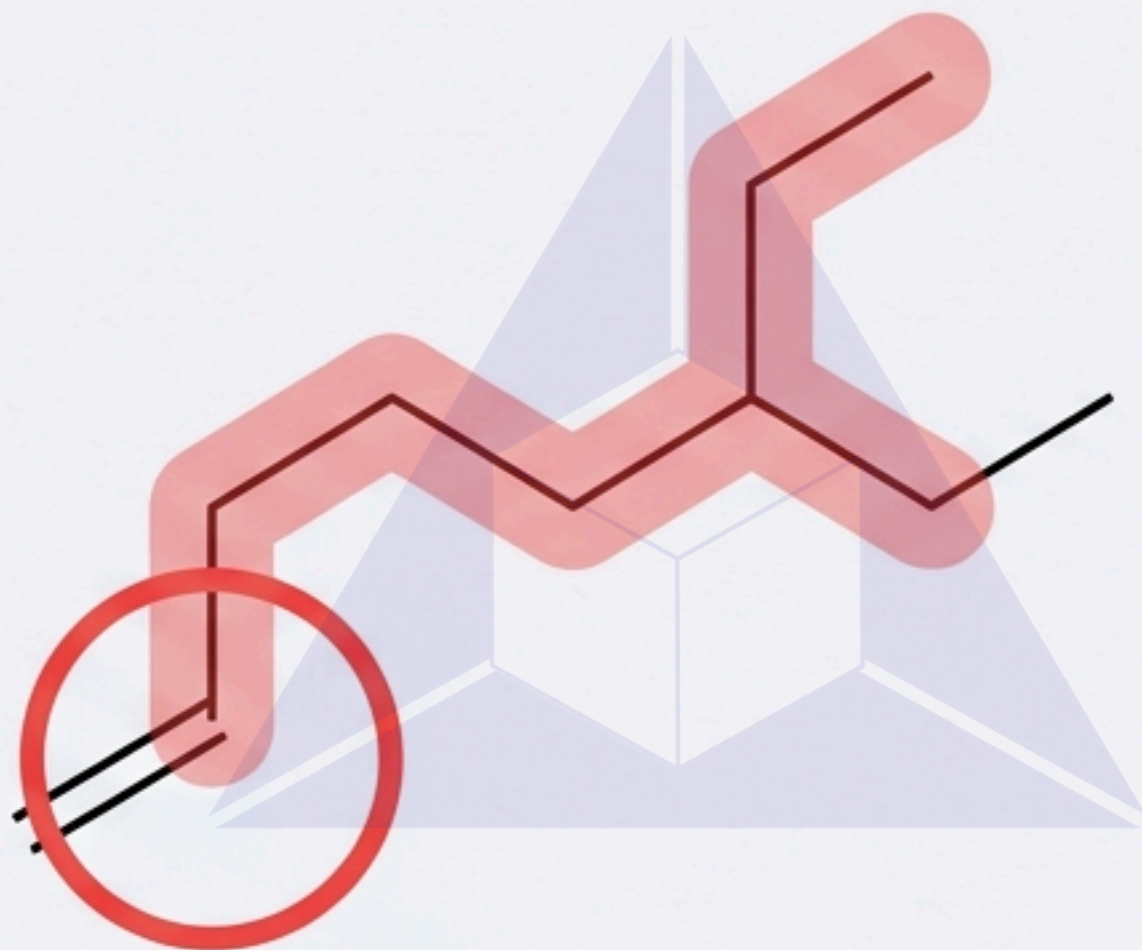


IUPAC Nomenclature of Alkenes

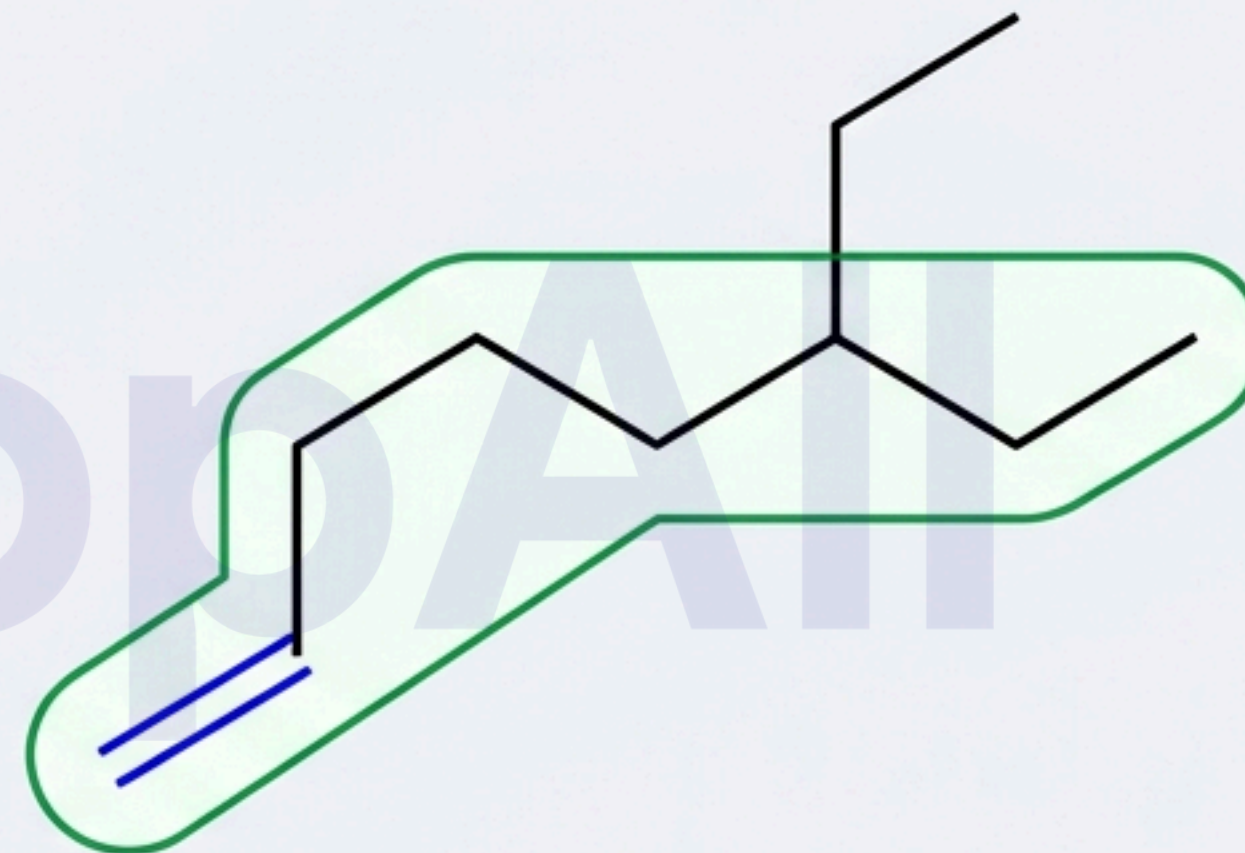
THE DOUBLE BOND CONTROLS THE PARENT CHAIN.



Rule 1: Select the longest chain containing C=C.



Fails to include the C=C bond.



The parent chain **MUST** include the double bond, even if a longer continuous carbon chain exists.



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

$$E=mc^2$$



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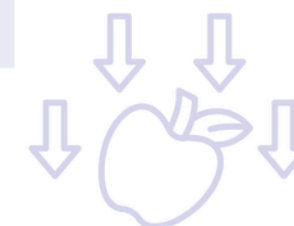
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Key Highlights

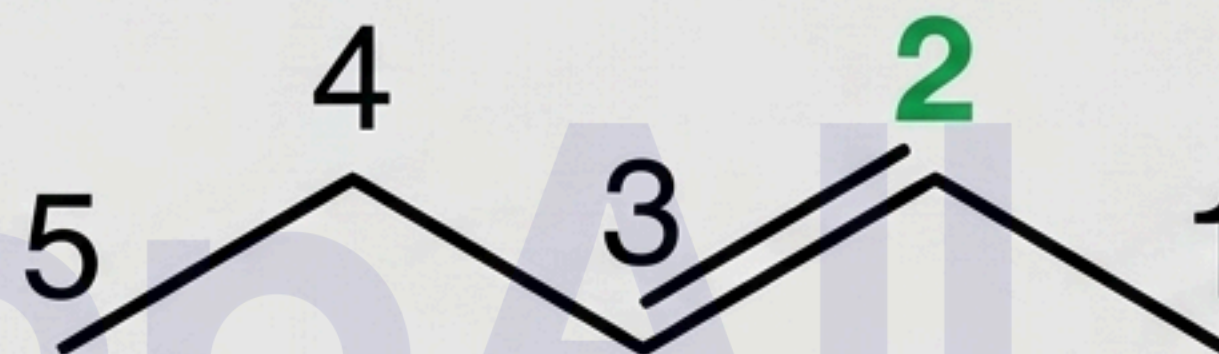
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Rule 2: Number from the **end** nearer the double bond.



Pent-**3**-ene



Pent-**2**-ene

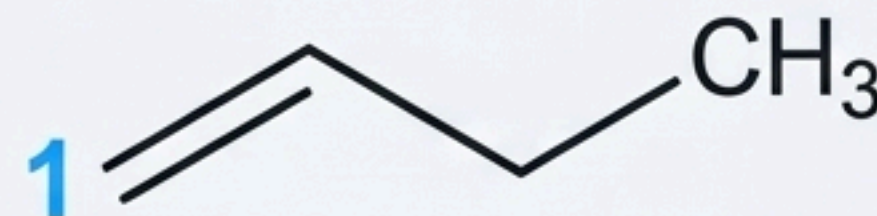
Locant **2** < Locant **3**

Suffix: ane $\rightarrow$ ene

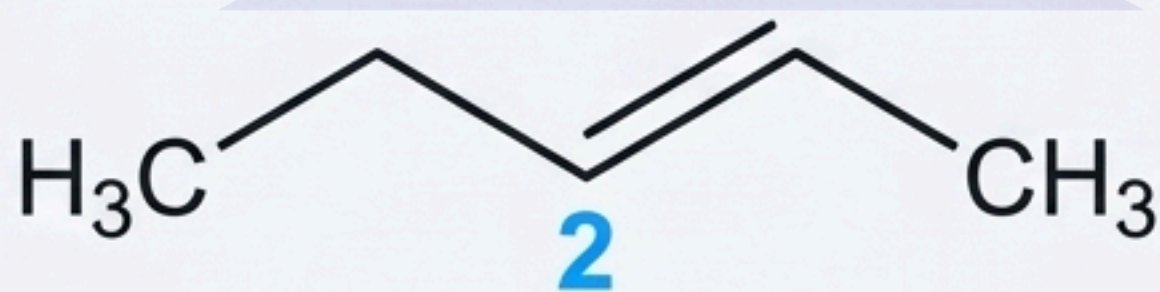


Propene

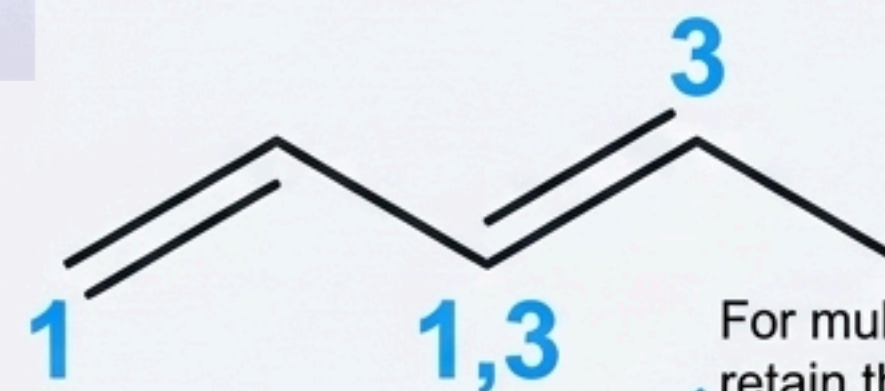
(No locant needed as it is unambiguously at position 1)



But-**1**-ene



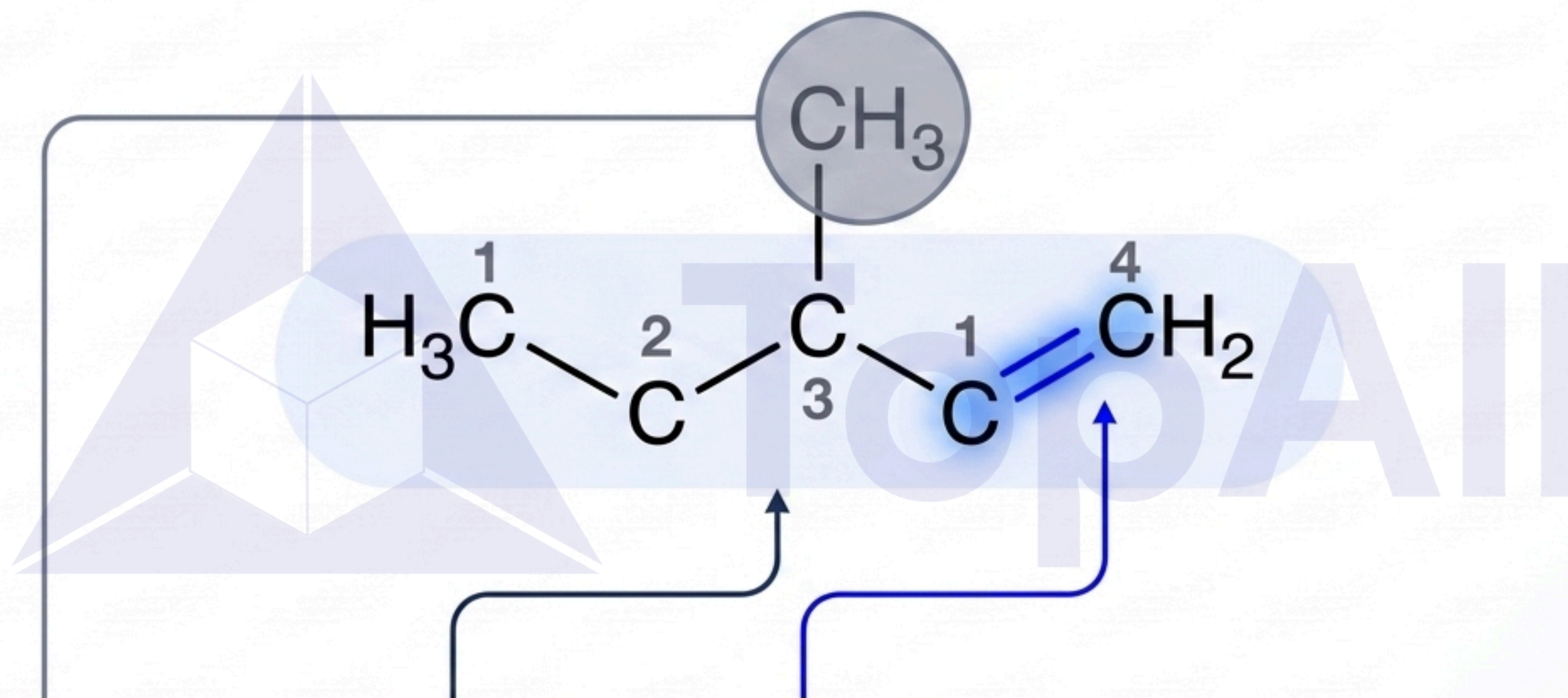
But-**2**-ene



Buta-**1,3**-diene

For multiple C=C bonds, retain the 'a' in the root and add 'di', 'tri', etc.

Assembly: Deconstructing a Branched Alkene



[3-Methyl] + [but] + [1-ene] = 3-Methylbut-1-ene

Substituent + Locant

Parent Root

Double Bond
Locant + Suffix

JEE Trap: The Longest Chain Illusion



Golden Rule: The parent chain is dictated by the functional group (C=C), not purely by carbon count.
Correct IUPAC Name: 2-Propylhept-1-ene



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