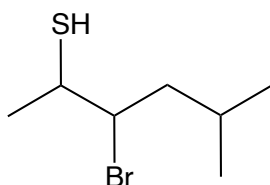


CONCEPT: NAMING THIOLS

- **Thiols** (mercaptans) possess a _____ (SH) group connected to a carbon atom.
- Set of rules for naming thiols are very similar to alcohols.
 - Add - _____ to the parent chain name.

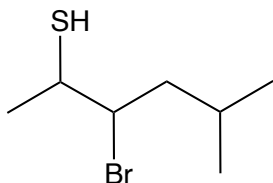
location-substituent-location-parent-thiol

EXAMPLE: Name the following thiol compound.



STEP 1: Find the _____ carbon chain (parent chain) and assign name according to the prefixes.

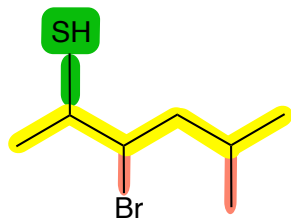
- Parent chain should include the _____ group and have _____ number of carbons.
- If a tie between longest chains, choose chain with more substituents.



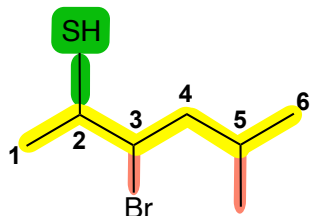
STEP 2: Assign name to all the substituents.

STEP 3: Start numbering the chain from the end closest to the _____ group.

- If a tie, then number from end closest to the next substituent.
- If still a tie, number in _____ order.
- Assign numerical location to the carbon with the _____ group.

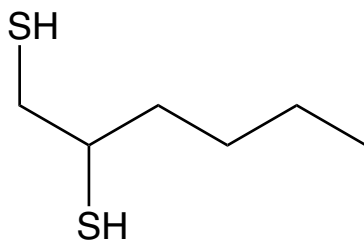


STEP 4 to 6: Repeat steps from previous naming topics.

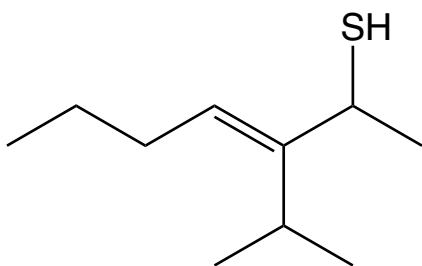


CONCEPT: NAMING THIOLS

PRACTICE: Determine IUPAC name for given compound.



PRACTICE: Determine IUPAC name for given compound.



PRACTICE: Draw skeletal structural formula for 2-ethylcyclopentanethiol.