Give the molecular formula, the structural formula, the condensed structural formula, and the abbreviated planar formula for pentane.

Molecular formula: C₅H₁₂

Structural formula: CH₃CH₂CH₂CH₂CH₃

Condensed structural formula: CH₃(CH₂)₃CH₃

Abbreviated planar formula:

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 Give the molecular formula, the structural formula, the condensed structural formula, and the abbreviated planar formula for octane.

Molecular formula: C₈H₁₈

Structural formula: CH₃CH₂CH₂CH₂CH₂CH₂CH₂CH₃

Condensed structural formula: CH₃(CH₂)₆CH₃

Abbreviated planar formula:

3. Give the molecular formula, the structural formula, the condensed structural formula, and the abbreviated planar formula for 4-ethyl-2,3-dimethylheptane.

Molecular formula: C₁₁H₂₄

Structural formula: CH₃CH(CH₃)CH(CH₃)CH(CH₂CH₃)CH₂CH₂CH₃

Condensed structural formula: CH₃CH(CH₃)CH(CH₃)CH(CH₂CH₃)(CH₂)₂CH₃

Abbreviated planar formula:

4. Give the formula, the the abbreviated

4-ethyl-2,3-dimethylheptane

molecular formula, the structural condensed structural formula, and planar formula for 3,3-diethyloctane.