

FINAL EXAM Summary Sheet

Potential Study Questions

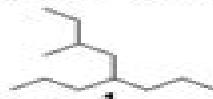
***Disclaimer:** The following are potential topics for exam questions and sample questions; the exam may or may not contain these questions, and questions not included in this sheet may or may not be on the exam. There also may be types in this sheet.*

ALKANES

Physical Properties

- Hydrocarbons, dispersion forces, non-polar, not miscible w/water, low density
- sp^3 hybridized carbon: C-C, C-H bonds, electronegativity, MO theory & orbitals
- m.p.: odd/even effect
- b.p.: C1-4: gases; C5-17: liquids, C18 and up: solids
- linear, branched, cyclics, chirality (incl. optical activity, D/L, R/S, dL, +/ -),
- non-equivalent carbons
- isomers: constitutional, conformational isomers, stereo-isomers
- naming: special groups:
 - o Me, Et, Pr, Bu
 - o iPr, iBu, sec-Bu, tBu
 - o neopentyl

***Task:** Name compounds 1 and 2; identify any chiral centers and # of chemically non-equivalent carbons; where would the compounds absorb in IR or UV-vis? Identify the participating orbitals.*



- Rotational/conformational isomers = conformations
 - o eclipsed
 - values: H/H; CH₃/H; CH₃/CH₃
 - o staggered, anti, gauche
 - value: gauche: CH₃/CH₃

***Task:** draw an energy rotational energy plot (360°) for pentane along C2-C3 bond*

- Cycloalkanes:
 - o Spiro, fused, bridged: naming
 - o Heats of combustion: ring strains (angle, torsional, sterics)
 - o Cis/trans
 - o 1,3-diaxial interactions
 - value H/CH₃
 - o Ring-flip for cyclohexane

Organic Final Study Guide

Stanley Chernicoff

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