

FINAL EXAM Summary Sheet

Potential Study Questions

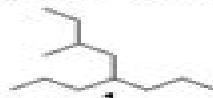
***Disclaimer:** The following are potential topics for exam questions and sample questions; the exam may or may not contain these questions, and questions not included in this sheet may or may not be on the exam. There also may be types in this sheet.*

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

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three main goals 1 provide a platform for instructors of organic chemistry to showcase evidence based methods and educational theories they have utilized in their classrooms 2 build new and strengthen existing connections between educational researchers and practitioners and 3 highlight how people have used chemical education based research in their teaching practice There are places in the literature dedicated for chemical education research CER however there is not a clear avenue for those that have changed their teaching methods based on published CER and report their experiences Creating this article collection will foster collaboration between chemical education researchers and teachers of organic chemistry This opportunity allows these instructors to share evidence based practices experiences challenges and innovative approaches from CER literature and beyond This Research Topic bridges discipline based education research and the scholarship of teaching and learning which will help advance organic chemistry education and improve student outcomes

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