

# TUTORIAL 3

## ALKENES & CYCLOALKENES

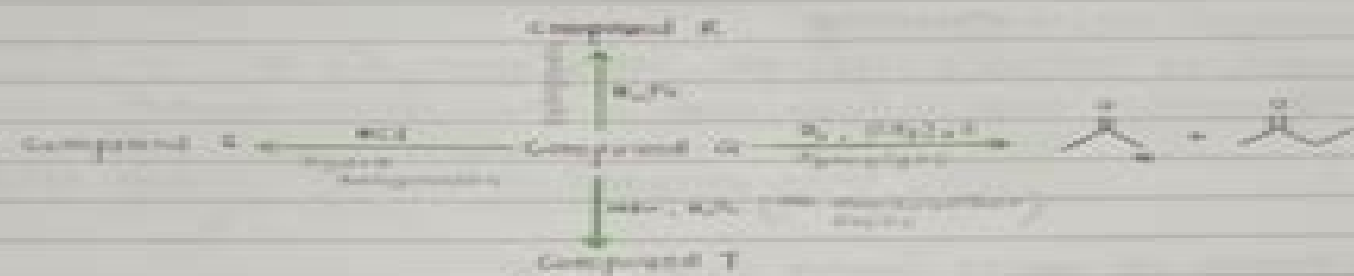
Topic

Class

Date

Q1

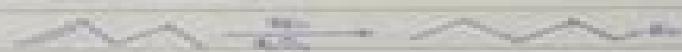
Alkene can undergo various reactions. Identify the structure of R, S, T and U.



Compound R (isomer)



Compound T (anti-Markovnikov addition)



Compound S (hydrobromide)



Compound U (hydrobromide)



Q2

a) Define hydrocarbon compounds

A class of organic compounds made up of only the elements carbon (C) and hydrogen (H)

b) Indicate the difference between propene and propane

| Propene                                       | Propane                                         |
|-----------------------------------------------|-------------------------------------------------|
| - Propene is a saturated hydrocarbon compound | - Propane is a unsaturated hydrocarbon compound |
| - carbon-carbon double bond                   | - carbon-carbon single bond in the structure    |
| - fully saturated to bond                     | - double bond and single bond                   |

# Reaction Lab Answer Key Hydrocarbon

**Michael Rajnik**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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 meet the increasing challenges of discovering hydrocarbon resources it is essential that we advance our understanding of  
 these systems through new geochemical approaches and analytical developments Such development requires that academic  
 and industry led research efforts converge in ways that are unique to the geosciences The aim of this volume is to bring  
 together a multidisciplinary geochemical community from industry and academia working in hydrocarbon systems to publish  
 recent advances and state of the art approaches to resolve the many remaining questions in hydrocarbon systems analysis  
 From Source to Seep presents geochemical and isotopic studies that are grouped into three themes 1 source rock  
 identification and the temperature timing of hydrocarbon generation 2 mechanisms and time scales associated with  
 hydrocarbon migration trapping storage and alteration and 3 the impact of fluid flow on reservoir properties  
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 1938-1953 American Petroleum Institute. Research Project 45,1953      *Water-resources Investigations Report* ,1999  
Energy: a Continuing Bibliography with Indexes ,1979

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