

Alkanes, Alkenes, Alkynes and Cyclic Hydrocarbons - Worksheet - ANSWERS

Name or draw the following compounds:

	Chemical structure	IUPAC Name
1	$\text{H}_3\text{C}-\text{CH}_2-\overset{\text{Cl}}{\underset{ }{\text{CH}}}-\text{CH}_3$	2-chlorobutane
2	$\begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C}-\text{CH}-\text{CH}_2-\text{HC}-\text{CH}_3 \\ \quad \\ \text{CH}_3 \text{CH}_3 \end{array}$	3,5-dimethylheptane
3	$\text{H}_3\text{C}-\overset{\text{Br}}{\underset{ }{\text{CH}}}-\text{CH}_2-\overset{\text{Br}}{\underset{ }{\text{CH}}}-\underset{\text{CH}_3}{\underset{ }{\text{CH}}}-\overset{\text{Cl}}{\underset{\text{Cl}}{\underset{ }{\text{C}}}}-\text{CH}_3$	4,6-dibromo-2,2-dichloro-3-methylheptane
4	$\begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C}-\text{C}-\text{CH}_2-\underset{\text{NH}_2}{\underset{ }{\text{CH}}}-\text{CH}_2-\text{CH}_2-\text{NO}_2 \\ \\ \text{CH}_3 \end{array}$	3-amino-5-ethyl-5-methyl-1-nitroheptane
5	$\text{H}_3\text{C}-\underset{\text{CH}_3}{\underset{ }{\text{CH}}}-\text{CH}_2-\overset{\text{CH}_3}{\underset{\text{CH}_3}{\underset{ }{\text{C}}}}-\text{CH}_2-\text{CH}_3$	2,4,4-trimethylhexane
6	$\begin{array}{c} \text{CH}_3 \\ \\ \text{HC}-\text{CH}_2-\underset{\text{Cl}}{\underset{ }{\text{CH}}}-\overset{\text{Cl}}{\underset{ }{\text{CH}}}-\text{CH}_3 \\ \\ \text{CH}_2 \\ \\ \text{Cl}-\underset{\text{CH}_3}{\underset{ }{\text{CH}}} \end{array}$	2,3,7-trichloro-5-ethyloctane
7	$\text{H}_3\text{C}-\overset{\text{NH}_2}{\underset{\text{NO}_2}{\underset{ }{\text{C}}}}-\text{CH}_2-\overset{\text{NH}_2}{\underset{\text{NO}_2}{\underset{ }{\text{C}}}}-\text{CH}_3$	2,4-diamino-2,4-dinitropentane
8	$\text{Cl}-\overset{\text{Cl}}{\underset{\text{Cl}}{\underset{ }{\text{C}}}}-\text{CH}_2-\overset{\text{Cl}}{\underset{\text{Cl}}{\underset{ }{\text{C}}}}-\text{CH}_2-\overset{\text{Cl}}{\underset{\text{Cl}}{\underset{ }{\text{C}}}}-\text{CH}_3$	1,1,1,3,3,5,5-heptachlorohexane
9	$\text{H}_3\text{C}-\overset{\text{CH}_3}{\underset{\text{CH}_3}{\underset{ }{\text{C}}}}-\text{CH}_2-\overset{\text{Br}}{\underset{ }{\text{CH}}}-\text{CH}_3$	2-bromo-4,4-dimethylhexane
10	$\text{H}_3\text{C}-\text{CH}_2-\overset{\text{Br}}{\underset{\text{Cl}}{\underset{ }{\text{C}}}}-\text{CH}_2-\text{CH}_3$	3-bromo-3-chloropentane
11	$\text{H}_3\text{C}-\overset{\text{NO}_2}{\underset{ }{\text{CH}}}-\text{CH}_2-\overset{\text{Br}}{\underset{ }{\text{CH}}}_2$	1-bromo-3-nitrobutane
12	$\text{CH}_3-\overset{\text{Cl}}{\underset{ }{\text{CH}}}-\underset{\text{Cl}}{\underset{ }{\text{CH}}}-\text{CH}_2-\text{CH}_3$	2,3-dichloropentane

Alkenes And Alkynes Study Guide Answers

McMurry, Susan McMurry



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Organic Chemistry, 13e Student Study Guide and Solutions Manual T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2022-05-03 Organic Chemistry Student Study Guide and Solutions Manual 13th Edition offers the full solutions for select exercises from the text *Organic Chemistry, 12e Binder Ready Version Study Guide & Student Solutions Manual* T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2016-04-11 This is the Student Study Guide Solutions Manual to accompany Organic Chemistry 12th Edition The 12th edition of Organic Chemistry continues Solomons Fryhle Snyder's tradition of excellence in teaching and preparing students for success in the organic classroom and beyond A central theme of the authors' approach to organic chemistry is to emphasize the relationship between structure and reactivity To accomplish this the content is organized in a way that combines the most useful features of a functional group approach with one largely based on reaction mechanisms The authors' philosophy is to emphasize mechanisms and their common aspects as often as possible and at the same time use the unifying features of functional groups as the basis for most chapters The structural aspects of the authors' approach show students what organic chemistry is Mechanistic aspects of their approach show students how it works And wherever an opportunity arises the authors show students what it does in living systems and the physical world around us **Organic Chemistry, Student Study Guide and Solutions Manual** David R. Klein, 2017-01-04 This is the Student Study Guide and Solutions Manual to accompany Organic Chemistry 3e Organic Chemistry 3rd Edition is not merely a compilation of principles but rather it is a disciplined method of thought and analysis Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems Readers must learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry Existing textbooks provide extensive coverage of the principles but there is far less emphasis on the skills needed to actually solve problems Hazmat Chemistry Study Guide (Second Edition) Jill Meryl Levy, 2011 Organic Chemistry, Study Guide and Solutions Manual T. W. Graham Solomons, Craig B. Fryhle, 2000 On the cover of this book is a Pacific yew tree found in the ancient forests of the Pacific Northwest The bark of the Pacific yew tree produces Taxol found to be a highly effective drug against ovarian and breast cancer Taxol blocks mitosis during eukaryotic cell division The supply of Taxol from the Pacific yew tree is vanishingly small however A single 100 year old tree provides only about one dose of the drug roughly 300 mg For this reason as well as the spectacular molecular architecture of Taxol synthetic organic chemists fiercely undertook efforts to synthesize it Five total syntheses of Taxol have thus far been reported Now a combination of isolation of a related metabolite from European yew needles and synthesis of Taxol from that intermediate supply the clinical demand This case clearly demonstrates the importance of synthesis and the use of organic chemistry It's just one of the many examples used in the text that will spark the interest of students and get them involved in the study of organic chemistry Student Study Guide and Solutions

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Organic Chemistry, 5e Student Study Guide and Solutions Manual David R. Klein, Laurie S. Starkey, 2025-03-18 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Study Guide and Solutions Manual 5th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry

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