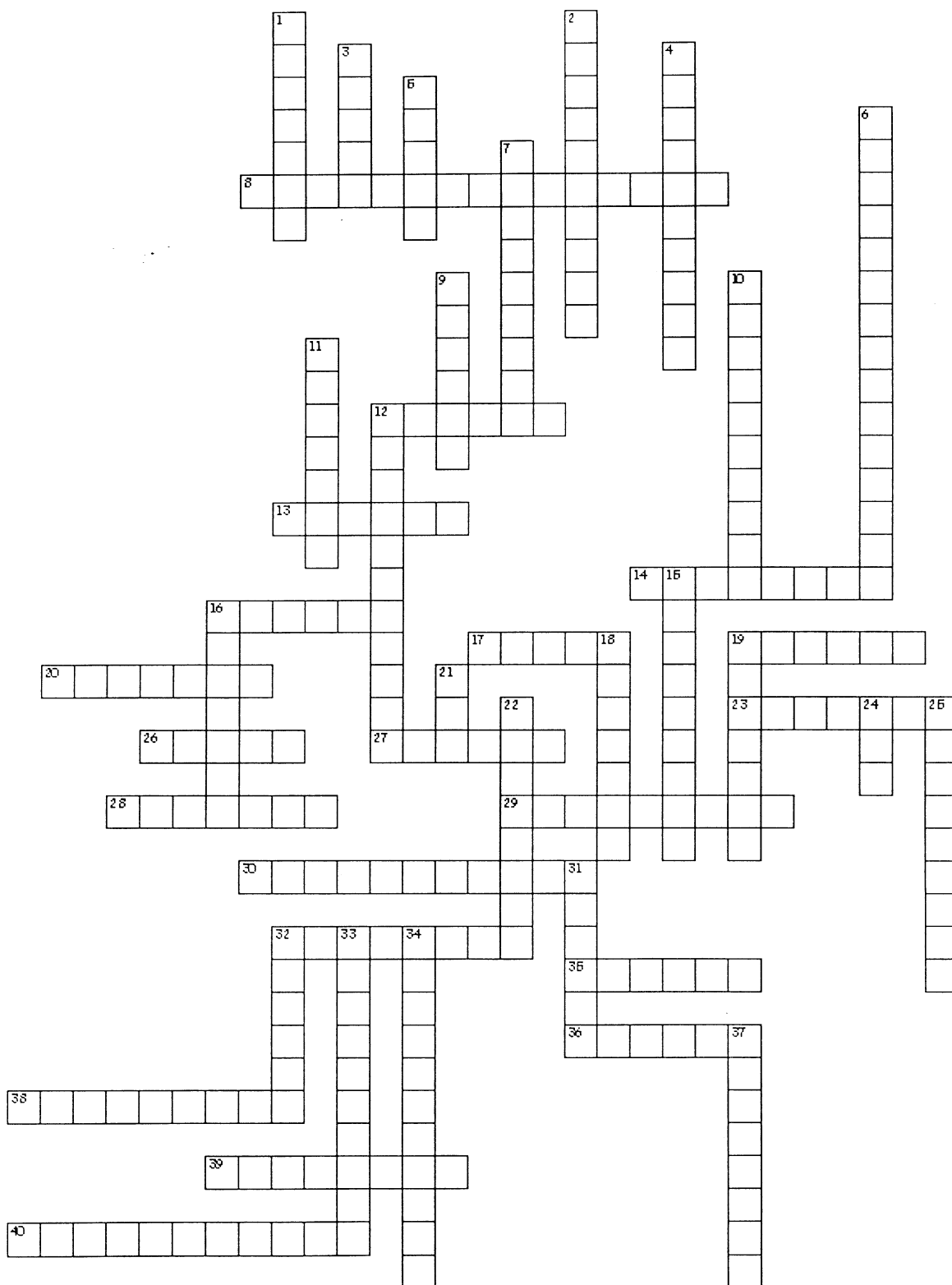


Chapter 10, Structure and Bonding in Alkanes

Cross-Word Puzzle



Across

8. X-Ray method of choice.
12. The name of a chlorine substituent.
13. For organics have values of approximately 109.5, 120, or 180.
14. Number of organic chemicals.
16. Alkane having four carbons.
17. Bonds that can freely rotate.
19. Hydrocarbons that have Benzene like rings.
20. Alkane having one carbon.
23. Organics having internal carbonyl groups.
26. They bonding theory that explains shapes.
27. Organics having OR groups on their carbonyl carbons.
28. Hydrocarbons that have one or more double bonds.
29. Organics having terminal carbonyl groups.
30. Organics having F, Cl, Br, and/or I side chains.
32. Organics having OH groups.
35. Organics having NR₂ groups on their carbonyl carbons.
36. Organics having C-O-C linkages.
38. For organics have values of approximately 1.2 to 1.55 Angstroms.
39. Carbons that have three other carbons attached.
40. Bending of X-Rays by Crystals.
41. The type of Formula showing connectivity.

Down

1. Carbons that have only 1 other carbon attached.
2. Carbons that have four other carbons attached.
3. The bonding theory that is flat.
4. Man made chemicals.
5. The naming rules for organic molecules.
6. Organics having OH groups on their carbonyl carbons.
7. The type of formulae showing the numbers and types of atoms in a molecule.
9. Organics having SH groups.
10. Groups on molecules that determine reactivity.
11. Alkane having three carbons.
12. A six membered alkane ring.
15. The 3 carbon side chain that is attached through the middle.
16. A six membered arene ring.
18. Hydrocarbons that have one or more triple bonds.
19. Hydrocarbons that have only single bonds.
21. They bonding theory that gives hybridizations.
22. The chemicals of life.
24. Nuclear Magnetic Resonance.
25. Carbons that have two other carbons attached.
31. Alkane having two carbons.
32. Organics having NR₂ groups.
33. Reaction with oxygen give carbon dioxide and water.
34. Composed on only C and H.
37. Methods like NMR, IR, etc.

45 of 45 words were placed into the puzzle.

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Chapter 10, Structure and Bonding in Alkanes Word Search Puzzle

Y P R E Z L F C O M B U S T I O N A O E
S H R P N S Y U Y F E A S E N A K L A N
E E P I E A X P N C L T G G L M B K M A
N W N A M S H F O C L Y H E Y I E Y G T
Y B T E R A V T O R T O W E S D N L I U
K M H F K G R H E S P I H N R E Z H S B
L O I N R L O Y M D S O O E B S E A Q S
A L O T N L A L R I P B S N X V N L C O
V E L E S N M R L C R N G I A A E I H D
Y C S R D I F F R A C T I O N L N D K P
R U S T I A B Q C C T S S C V A T E H S
A L E I Z E C O A I E S L P G B T A Y D
N A D A T R R P L L I A Y R O O T N I E
R R Y R J D U X G Y L O O R N R T S N A
E L H Y Y I V N Q X N G N E C H T A M E
T E E H Y R A D N O C E S T E A H I Y Q
A W D S E N E R A B T A O T N T N Z N X
U I L A R U T C U R T S I C E E K H R G
Q F A C H L O R O A P C E M S R E T S E
P R O P A N E P M C S S M I L L I O N S

ALCOHOLS	ALDEHYDES	ALKANES
ALKENES	ALKYLHALIDE	ALKYNES
AMIDES	AMINES	ANGLES
ARENES	BENZENE	BUTANE
CARBOXYLICACIDS	CHLORO	COMBUSTION
CRYSTALLOGRAPHY	CYCLOHEXANE	DIFFRACTION
DISTANCES	ESTERS	ETHANE
ETHERS	FUNCTIONAL	HYDROCARBONS
ISOPROPYL	IUPAC	KETONES
LEWIS	METHANE	MILLIONS
MOLECULAR	NMR	ORGANICS
PRIMARY	PROPANE	QUATERNARY
SECONDARY	SIGMA	SPORTING
STRUCTURAL	SYNTHETICS	TERTIARY
THIOLS	VBT	VSEPR

45 of 45 words were placed into the puzzle.

Solution

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