Chapter 10, Structure and Bonding in Alkanes
Cross-Word Puzzle
Across
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. Hydrocarbons that have three other carbons attached.
40. Bending of X-Rays by Crystals.
41. The type of formula showing connectivity.

Down
1. Hydrocarbons that have only 1 other carbon attached.
2. Hydrocarbons 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. A six membered arene ring.
16. The 3 carbon side chain that is attached through the middle.
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.
25. Hydrocarbons 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.
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Word Search Puzzle

YPREZLFCOMBUSTIONAOE
SHRPNSYUYFEASENAKLAN
EEPIEAXPNCLTGGLMBKMA
WNAMSHPFOCLYHEYIEYGTT
YBTERAVTORTOWESDNLIIU
KMHKGRHESPISHNREZHSB
LOINRLOYMSOOEBSEAEQS
ALOTNLLALRIPBSNXVNLCO
VELESNMRLCRNGIAAEIHHD
YCSRDFFACTIONLNDKPK
RUSTIABQCCCTSCVATEHS
ALEIZECOAIESLPGBTAYD
NADATRRPLLIAYROOTNIE
RRYRJDUXGYLOORNRTSNA
ELHYYIVNQXNGNECHTAME
TEEHYRADNOCESTEAHIQY
AWDSNERABTATONTNTNZNX
UILARUTCURTSICEEKKHRG
QFACHLOROAPCEMSRETS
PROPANEPMCSSMILLIONS
ALCOHOLS
ALKENES
AMIDES
ARENES
CARBOXYLIC ACIDS
CRYSTALLOGRAPHY
DISTANCES
ETHERS
ISOPROPYL
LEWIS
MOLECULAR
PRIMARY
SECONDARY
STRUCTURAL
THIOLS

ALDEHYDES
ALKYLHALIDE
AMINES
BENZENE
CHLORO
CYCLOHEXANE
ESTERS
FUNCTIONAL
IUPAC
METHANE
NMR
PROPANE
SIGMA
SYNTHETICS
VBT

ALKANES
ALKYNES
ANGLES
BUTANE
COMBUSTION
DIFFRACTION
ETHANE
HYDROCARBONS
KETONES
MILLIONS
ORGANICS
QUATERNARY
SPORTING
TERTIARY
VSEPR

45 of 45 words were placed into the puzzle.

Solution

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