

DOWNLOAD PDF IDENTIFY THE FUNCTIONAL GROUPS PRACTICE PROBLEMS

Chapter 1 : Solution to Practice Problem 2

Organic Functional Groups. Identify the organic class to which the compound belongs. Show all questions ? alcohol? aldehyde?.

A hydrocarbon connected by only single bonds. Alkynes A hydrocarbon, in which the carbon chain forms a cycle. Cyclic compounds A hydrocarbon that forms a ring of any size. Oxygen-containing A hydroxyl group bound to an sp^3 -hybridized carbon. Ethers An oxygen atom between two sp^3 -hybridized carbons. Epoxides A three atom ring containing one oxygen atom and two carbon atoms in which all atoms are sp^3 -hybridized. Aldehydes A carbonyl group in which the carbon is bound to a hydrogen as well as another carbon. Ketones A carbonyl group in which the carbon is bound to two other carbons. Carboxylic acids A carbonyl group in which the carbon is bound to a hydroxyl group OH and another carbon. Nitriles A carbon-nitrogen triple bond. Aziridines A three atom ring containing one atom of nitrogen and two of carbon in which all atoms are sp^3 -hybridized. Nitro groups A nitrogen atom bound to two oxygen atoms, in which one bond is single and the other is double. Imines A carbon-nitrogen double bond in which the carbon atom is bound to two other carbon atoms. Amides A carbonyl group in which the carbon atom is bound to an amino group. Sulfur-containing A thiol group SH bound to a sp^3 -hybridized carbon. Sulfides An sulfur atom between two sp^3 -hybridized carbons. Thioesters A carbonyl group in which the carbon atom is bound to a sulfide group and another carbon atom. Benzene derivatives One to six substituents on benzene ring. An example is presented on the right. Non aromatic heterocycles A ring containing at least one atom other than carbon, which does not satisfy the rules of aromaticity or antiaromaticity. Aromatic heterocycles A ring containing at least one atom other than carbon, which satisfies the rules of aromaticity. Terpenes A class of hydrocarbons in which the molecules are composed of isoprene units 2-methylbut-1,3-diene.

Chapter 2 : Chemistry Functional Groups Quiz - ProProfs Quiz

Practice Functional Group Identification. Alkane Alkene Alkyne Arene Cycloalkane. Next Copyright (c) All rights reserved.

Chapter 3 : Functional Groups

Identify all of the functional groups in each of the following compounds: Next. Practice Problems. Identify all the functional groups found in vanill.

Chapter 4 : Identifying Functional Groups - ProProfs Quiz

A quiz of the various functional groups (R groups) that pertain to organic chemistry.

Chapter 5 : Functional Group Drill 2

Think you've mastered your organic chemistry functional groups? Take this short quiz to find out where you stand. If you don't feel % ready go back to my Organic Chemistry Functional Groups Video and download the functional groups cheat sheet to follow along.

Chapter 6 : Functional Groups Practice

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Chapter 7 : Quiz Chem - Common Functional Groups - Quiz Sciences

Functional groups are specific atoms within molecules that are responsible for the chemical reaction of a particular compound. The same group undergoes the same chemical reaction regardless of size.

Chapter 8 : Identify all of the functional groups in each of the

Primary Amine Secondary Amine Tertiary Amine. Quaternary Ammonium Amide Aniline Nitrile. Back Next Copyright (c) All rights reserved.

Chapter 9 : IR Spectra of Functional Groups Quiz - By sproutcm

Functional groups focus attention on the important aspects of the structure of a molecule. We don't have to worry about the differences between the structures of 1-butene and 2-methylhexene, for example, when these compounds react with hydrogen bromide.