

Study Guide Organic Acs

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Which of the following functional groups is not found in the molecule shown below?
What is the IUPAC nome for this compound
Which of the following carbocation shown below is mest stable
Which of the following carbocation shown below is most stable
Identify the hybridization of the Indicated atoms shown below from left to right.
Which of the following lewis structures contain a sulfur atom with a formal charge of 1?
Which of the following represents the best lewis structure for the cyanide ion (-CN)
Which of the following would best act as a lewis base?
Which compound is the strongest acid
What is the IUPAC one for the compound shown below?
Which of the following molecules has the configuration?

Which reaction will generate a pair of enantiomers?

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General Chemistry 2 Review

The average rate of appearance of [NHK] is 0.215 M/s. Determine the average rate of disappearance of [Hz].

Which of the statements shown below is correct given the following rate law expression

Use the following experimental data to determine the rate law expression and the rate constant for the following chemical equation

Which of the following will give a straight line plot in the graph of $\ln[A]$ versus time?

Which of the following units of the rate constant K correspond to a first order reaction?

The initial concentration of a reactant is 0.453M for a zero order reaction. Calculate the final concentration of the reactant after 64.4 seconds if the rate constant is 0.00137 Ms.

The initial concentration of a reactant is 0.738M for a zero order reaction. The rate constant is 0.0352 M/min. Calculate the time it takes for the final concentration of the reactant to decrease to 0.255M.

Calculate the rate constant K for a second order reaction if the half life is 243 seconds. The initial concentration of the reactant is 0.325M.

Which of the following particles is equivalent to an electron?

Identify the missing element.

The half-life of Cs-137 is 30.0 years. Calculate the rate constant K for the first order decomposition of isotope Cs-137.

The half life of Iodine-131 is about 8.03 days. How long will it take for a 200.0g sample to decay to 25g?

Which of the following shows the correct equilibrium expression for the reaction shown below?

Calculate K_p for the following reaction at 298K. $K_c = 2.41 \times 10^{-2}$.

Use the information below to calculate the missing equilibrium constant K_c of the net reaction

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Intro

How many protons

Naming rules

Percent composition

Nitrogen gas

Oxidation State

Stp

Example

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What is the major product in the following reaction?

Which compound has a proton with the lowest pka value?

Which structure is most consistent with the following IR spectrum?

Which set of reagents will produce p-Nitrobenzoic acid from Benzene with the

Organic Chemistry 2 Multiple Choice Practice Test

Which of the following reagents will carry out the reaction shown below?

Complete the reaction sequence

Which of the following diene and dienophile will produce the product shown below

What is the product of the reaction shown below?

11. Complete the sequence

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