

1. What is Resonance?

The true distribution of electrons in a molecule cannot always be accurately depicted through chemical formulas. Resonance is a tool to show this.

So what about applying this concept to these molecules?



In reality, the charge in both of these molecules is distributed equally between the different units.

Important: this is not an equilibrium!



Instead, the "true" structure of the molecule is a hybrid of these two forms.



2. How to Use Curved Arrows

There are only three legal "moves" we can do with curved arrows to show resonance.



3. When Resonance Forms are Not Equal: How to tell which are most stable?

Rule #1 - The Fewer Charges, the Better

The more stable a resonance form is, the more it will contribute to the resonance hybrid



Rule #2 - Full Orbits Are Preferred

A resonance form in which all atoms have a full orbit is more significant than one where at least one atom lacks a full orbit.



Rule #3 - Place a negative charge on the most electronegative atom



If given a choice, the best place to put a negative charge on a resonance form is on the **least electronegative** atom

Use acidity trends to determine the "best" resonance form in these cases

- Electronegativity
- Polarizability
- Induction
- Orbital hybridization

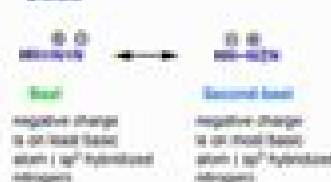
Polarizability



Electron withdrawing groups



Orbitals



Rule #4 Stabilizing positive charge

If the resonance form has a positive charge, try and find a resonance form in which all atoms are full (Rule #2)

If all atoms are neutral, place positive charge on the atom best able to support a carbocation i.e. the most substituted carbon



Rule #5 - Aromaticity (Org 2 Topic)

A resonance form that is aromatic will have a disproportionate contribution to the resonance hybrid



4. Applications of Resonance

π \rightarrow donation

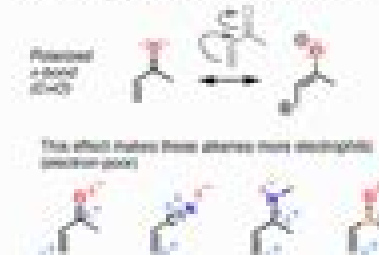
Atoms attached to an atom with a lone pair such as O, N, S, etc. often called "heteroatoms" have an important resonance form with a negative charge adjacent to the carbon atom bond.

Example



π \rightarrow accepting

When double bonds are connected to a polarized π bond, the molecule will have a significant resonance form where there is positive charge on the adjacent carbon.



Omissions, Mistakes, Suggestions?

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Organic Chemistry Semester 1 Mechanism Study Guide

Calvin D. Ritchie



Organic Chemistry Semester 1 Mechanism Study Guide:

A Concise Organic Chemistry Text Book for Honors Semester-3, Course-6 by BVR VENKATA RAO

BASA,2024-12-10 This concise text book of organic chemistry is primarily meant for II BSc Honors students of Indian Universities It includes topics such as halogen Hydroxy carbonyl compounds carboxylic acids and carbohydrates Some practicals like organic preparations and organic compound analysis is depicted nicely Covers multiple choice questions for PG entrance Video links are provided wherever appropriate Hope students and faculty will receive this book and utilize well

A Concise Text Book of Organic Chemistry for II BSc Chemistry Honors Semester -3, Course-6 by BVR Venkata Rao

Basa,2024-11-18 Organic Chemistry Halogen Compounds Hydroxy Compounds Carbonyl Compounds Carboxylic Acids and Carbohydrates including practicals and PG Entrance Objective Questions MCQ *Understanding Organic Chemistry* Margot K. Schumm,1987 **Organic Chemistry Education Research into Practice** Jay Wackerly,Sarah Zingales,Michael

Wentzel,Gautam Bhattacharyya,Brett McCollum,2025-03-25 This Research Topic has three main goals 1 provide a platform for instructors of organic chemistry to showcase evidence based methods and educational theories they have utilized in their classrooms 2 build new and strengthen existing connections between educational researchers and practitioners and 3 highlight how people have used chemical education based research in their teaching practice There are places in the literature dedicated for chemical education research CER however there is not a clear avenue for those that have changed their teaching methods based on published CER and report their experiences Creating this article collection will foster collaboration between chemical education researchers and teachers of organic chemistry This opportunity allows these instructors to share evidence based practices experiences challenges and innovative approaches from CER literature and beyond This Research Topic bridges discipline based education research and the scholarship of teaching and learning which will help advance organic chemistry education and improve student outcomes *A Guide to Graduate Study* American Council on Education,1969 *Colombia, a Study of the Educational System of Colombia and a Guide to the Academic Placement of Students from Colombia in Educational Institutions of the United States* Stanley Wellington,1984 The educational system of Colombia is described and placement recommendations concerning Colombian students who want to study in the United States are presented After describing preschool and primary education secondary school and nonformal vocational education are described Attention is directed to current secondary school curricula and the current grading system as well as curricula and grading prior to 1974 Undergraduate admissions credits transfer practices grading examinations and degrees and diplomas are discussed The following levels of college studies are examined intermediate professional studies technological studies university studies specialist programs master s programs and doctoral programs Guidelines and placement recommendations are presented as they pertain to Colombian degrees and diplomas military and police training and transfer of credits from Colombian institutions A list of higher education institutions that offer different

levels of programs is appended The list provides the name of the institution addresses and telephone when available 1981 1982 enrollment figures the date of founding the length of the programs and the diploma degree or title awarded Also appended are a list of courses for different programs of study and a list of secondary school courses by grade SW

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