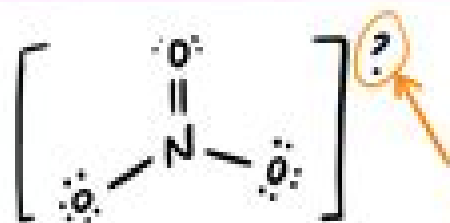


[FORMAL CHARGE]^{+/-}

$$F.C. = (\text{valence } e^-) - (\text{nonbonding } e^-) - \frac{1}{2} (\text{bonding } e^-)$$

- * The amount of electrons in a specific atom when the molecule shares electrons equally.
- * **Only** applies to covalent molecules.

Examples



Overall charge comes from addition of all atomic formal charges!

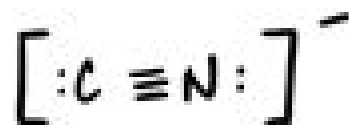
Q: What is the formal charge of N?

A:

$$F.C. = 5 - 0 - (\frac{1}{2} \times 8)$$

$$F.C. = 5 - 4$$

$$F.C. = +1$$



Q: What is the formal charge of carbon?

$$A: F.C. = 4 - 2 - (\frac{1}{2} \times 6)$$

$$F.C. = 4 - 2 - 3$$

$$F.C. = -1$$

Formal Charges

Neil D. Jespersen, Pamela Kerrigan



Formal Charges:

Chemistry Neil D. Jespersen, Alison Hyslop, 2021-11-02 Chemistry The Molecular Nature of Matter 8th Edition continues to focus on the intimate relationship that exists between structure at the atomic molecular level and the observable macroscopic properties of matter Key revisions in this edition focus on three areas The deliberate inclusion of more updated real world examples that relate common real world student experiences to the science of chemistry Simultaneously examples and questions have been updated to align them with career concepts relevant to the environmental engineering biological pharmaceutical and medical sciences Providing students with transferable skills with a focus on integrating metacognition and three dimensional learning into the text When students know what they know they are better able to learn and incorporate the material Providing a total solution through New WileyPLUS by fully integrating the enhanced etext with online assessment answer specific responses and additional practice resources The 8th edition continues to emphasize the importance of applying concepts to problem solving to achieve high level learning and increase retention of chemistry knowledge Problems are arranged in an intuitive confidence building order An Introduction to Chemistry Peter B. Moore, 2020-02-24 This publication is an entry level textbook designed to meet the needs of college students who learned some chemistry in their high school years but not enough to prepare them for advanced courses in chemistry or to satisfy the chemistry prerequisite for courses they might want to take in other scientific disciplines The history of chemistry is emphasized to an unusual degree here primarily to give the narrative a storyline but its historical emphasis has an important secondary benefit Much of the vocabulary chemists use to describe chemical phenomena today emerged early in the development of the discipline when their understanding of them was still in a primitive state As such the persistence of these words and the concepts behind them makes sense only in the light of history **Introduction to Chemical Structure** Donald Cotter, 2020-08-01 **Organic Chemistry** T. W. Graham Solomons, Craig Fryhle, 2009-12-02 The Tenth Edition of Organic Chemistry continues Solomons Fryhle s tradition of excellence in teaching and preparing students for success in the organic classroom and beyond In the Tenth Edition virtually every aspect of the teaching and learning solution has been revisited and redesigned to assist students in comprehending the fundamentals of organic chemistry The authors thoroughly explain and illustrate each new idea when it is first introduced and then reinforce the new idea or concept by having students work related problems *Organic Chemistry Volume 1* Roger Macomber, 1996-04-26 This is the first of a two volume set designed for a course focused on the fundamentals of organic chemistry for pre meds and chemistry bioscience students It covers the major aspects of molecular structure followed by an introduction to the techniques of physical and organic chemistry Chemistry Richard S. Moog, John J. Farrell, 2014-01-13 Chemistry A Guided Approach 6th Edition follows the underlying principles developed by years of research on how readers learn and draws on testing by those using the POGIL methodology This text follows inquiry based learning and correspondingly emphasizes the underlying concepts and the

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