

Molecular Polarity

How do we know if one molecule will be attracted to another molecule?

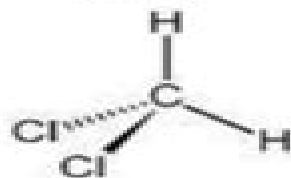
Why?

Did you ever wonder how molecules of a substance stay close together? Why does water form droplets or support things on its surface? Electrons may be distributed evenly or unevenly throughout a molecule, which creates partial charges at different parts of the molecule. These partial charges on one molecule often interact with the partial charges of a neighboring molecule. In this activity you will learn how to determine molecular polarity and placement of partial charges molecules.

Model 1 – The Molecules

POLAR MOLECULES:

Tetrahedral



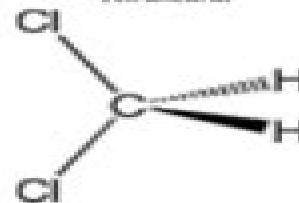
(CH₂Cl₂)

Trigonal Pyramidal



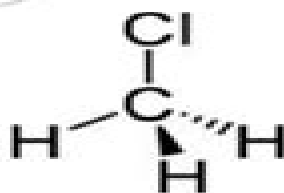
(NH₃)

Tetrahedral



(CH₃Cl)

Tetrahedral



(CH₃Cl)

Bent



(H₂O)

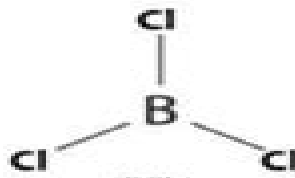
NON-POLAR MOLECULES:

Tetrahedral



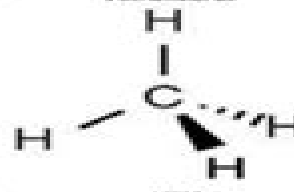
(CCl₄)

Trigonal Planar



(BCl₃)

Tetrahedral



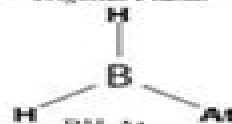
(CH₄)

Linear



(CO₂)

Trigonal Planar



(BH₃)

Bond Type Guide:

- C – Cl = Polar Covalent
- C – H = Polar Covalent
- C – O = Polar Covalent
- N – H = Polar Covalent
- O – H = Polar Covalent
- B – Cl = Polar Covalent
- B – H = Non-Polar Covalent
- B – At = Non-Polar Covalent

Molecule Polarity Pogil

Peter Debye



Molecule Polarity Pogil:

Analytical Chemistry Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more **Polar Molecules** Peter Debye, 2012-08-01 **Polar molecules** Peter J. W. Debye, 1970

Molecule Polarity Pogil: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. Molecule Polarity Pogil : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Molecule Polarity Pogil : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Molecule Polarity Pogil : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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