Pore separation refers to the process of separating substances based on their ability to pass through pores of a specific size. By understanding the principles of pore separation and the factors that influence it, scientists and engineers can develop innovative solutions for a wide range of applications. Would you like to learn more about a specific application or technique related to pore separation?* Catalysis: Designing catalysts with controlled pore structures to enhance reaction rates and selectivity.* Materials synthesis: Creating materials with tailored pore structures for specific applications, such as adsorption, separation, and energy storage.* Tissue engineering: Creating artificial tissues with controlled pore structures for cell growth.Chemistry and Materials Science: * Membrane filtration: Separating molecules based on their size using membranes with specific pore sizes.Key Techniques for Pore Separation: * Membrane filtration: Using membranes with specific pore sizes to separate molecules based on size.2.3.