Proper regeneration of molecular sieves in TSA processes

A molecule is an electrically neutral group of two or more atoms held together by chemical bonds. Molecules are distinguished from ions by their lack of electrical charge. In quantum physics, organic chemistry, and biochemistry, the distinction from ions is dropped and molecule is often used when referring to polyatomic ions. In the kinetic theory of gases, the term molecule is ...

Institute for Corrosion and Multiphase Technology

During the 2-day event, there were 19 presentations covering research related to sweet corrosion mechanisms, sour corrosion mechanisms, modeling of inhibition mechanisms, reviews of inhibitor studies, and molecular modeling. The meeting was very productive with open discussions between all attendees on each presented topic.

Molecule - Wikipedia

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Interests: mass spectrometry application in analytical chemistry; characterization of analytes in biological systems, use of laser desorption ionization methods to study biological samples, molecular clusters and metal cation complexes; application of ...

Green Inhibitors for Corrosion Protection of Metals and


Modern Software for Computer Modeling in Quantum Chemistry

The molecular weight of a pure compound is determined from its chemical formula and the atomic weights of its elements. The atomic weights of the elements found in organic substances are C = 12.011, H = 1.008, S = 32.065, O = 15.999, and N = 14.007. Example: The molecular weight of ethanol (C₂H₅OH)

Molecular Weight of Substances - Engineering ToolBox

Aug 31, 2021 · The most popular modern programs for quantum chemical and molecular dynamics (classical, ab initio, and QM/MM) calculations, which are relevant for the investigation of nature and various properties of different molecules and periodic chemical systems such as nanotubes, surfaces and films, polymers, and crystalline solids, are highlighted and briefly ...

Processes - MDPI

Proper regeneration of molecular sieves in TSA processes—Part 1. The regeneration of molecular sieves is the most crucial step in temperature swing adsorption (TSA) processes. It determines the performance and operating cost of molecular sieves over a given lifetime. It is well known that molecular sieves age with each regeneration cycle.

Find a Conference

Corrosion control of metals is of technical, economical, environmental, and aesthetical importance. The use of inhibitors is one of the best options of protecting metals and alloys against corrosion. The environmental toxicity of organic corrosion inhibitors has prompted the search for green corrosion inhibitors as they are biodegradable, do not contain heavy metals or other ...