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However, surface-related physical parameters of PEG-based DESs have not been investigated. Here, comprehensive investigation on surface tension, surface thermodynamic properties and the corresponding factors (e.g., hydrogen-bonding donor, component type, temperature, water, organic solvent, inorganic salt solution, molecular weight of PEG, concentration and mole ratio) were carried out.

Surface tension and surface thermodynamic properties of ...

ISBN: 9781439880876 1439880875 1439880891 9781439880890: OCLC Number: 724641866: Description: xv, 207 pages : illustrations ; 24 cm. Contents: Introduction to thermodynamic consideration of fluid/fluid interface --Basic thermodynamic relations for the analysis of fluid/fluid interface --Surface tension of pure water at air/water and oil/water interfaces --Surface tension of solutions --Surface ...

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Surface tension is the tendency of liquid surfaces to shrink into the minimum surface area possible. Surface tension allows insects (e.g. water striders), usually denser than water, to float and slide on a water surface. At liquid-air interfaces, surface tension results from the greater attraction of liquid molecules to each other (due to cohesion) than to the molecules in the air (due to ...

Surface tension - Wikipedia

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Surface tension provides a thermodynamic avenue for analyzing systems in equilibrium and formulating phenomenological explanations for the behavior of constituent molecules in the surface region. While there are extensive experimental observations and established ideas regarding desorption of ions from the surfaces of aqueous salt solutions, a more

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An apparatus was devised using the Traube Stalagmometer for the determination of the surface tension of the alcohols methanol, ethanol, propan-1-ol and butan-1-ol. Measurements were made under atmospheric pressure at temperatures between 288.15 K and 313.15 K. The surface tension values were correlated with temperature and surface thermodynamic parameters, namely surface entropy and surface ...

Surface tension and related thermodynamic parameters of ...

- Surface free energy is minimized by keeping the surface tension to a minimum \Rightarrow closest packing of atoms is preferred.
- If at all possible, a high surface tension surface will be covered with a coating of reduced surface tension.

– Metals are covered with oxides when the metal – gas interfacial energy, $\gamma_{m-g} > \gamma_{ox-g} + \gamma_{ox-m}$

728-Thermodynamics of Surfaces

Since surface tension acts as a thermodynamic obstacle to the formation of microscopic bubbles and drops, the entropy term facilitates the spontaneous formation of bubbles in champagne when the pressure is released, and likewise the formation of fog droplets when moist air is cooled, which would otherwise take place only in dirty glasses and on particulate nuclei.

thermodynamics - Surface tension and entropy - Physics ...

Surface tension and related thermodynamic quantities of aqueous electrolyte solutions . By Norihiro Matubayasi. Abstract. Surface tension provides a thermodynamic avenue for analyzing systems in equilibrium and formulating phenomenological explanations for the behavior of constituent molecules in the surface region.

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Aug 30, 2020 surface tension and related thermodynamic quantities of aqueous electrolyte solutions surfactant science Posted By Ian Fleming Publishing TEXT ID e10422015 Online PDF Ebook Epub Library the surface tension acting at the boundary of the cavity is equal to the hydrostatic tension h and hence $r = 0.2 h$

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