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Surface tension and surface thermodynamic properties are key physiochemical parameters for better utilization of PEG-based DESs. However, surface-related physical parameters of PEG-based DESs have not been investigated.

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Surface tension and surface thermodynamic properties of ...

Thus the energy consumed is at least the thermodynamic surface energy W_s arising from the specific thermodynamic surface energy γ , $W_s = 4 \gamma r_0^2$. At the critical equilibrium point, the closing stress $2\gamma/r_0$ due to the surface tension acting at the boundary of the cavity is equal to the hydrostatic tension ρh , and hence $r_0 = 2\gamma/\rho h$.

Thermodynamic Surface - an overview | ScienceDirect Topics

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Surface tension is an important factor in the phenomenon of capillarity. Surface tension has the dimension of force per unit length, or of energy per unit area. The two are equivalent, but when referring to energy per unit of area, it is common to use the term surface energy, which is a more general term in the sense that it applies also to solids.

Surface tension - Wikipedia

studies of surface-tension, $G_s = ?$.

Temperature dependence can be determined by differentiating with respect to temperature.

- Thus, temperature dependence of surface tension leads to the specific surface entropy.
- Temperature dependence of γ predicting by a semi-empirical equation (van der Waals and Guggenheim: where $\gamma_0 = \gamma$ at $T = 0$ K, T

728-Thermodynamics of Surfaces

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In the preceding chapter, the surface tension and the related thermodynamic quantities of two-component two-phase systems were discussed in detail. In this

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From 251 data points examined the average relative deviation (ARD) of the correlated and calculated densities and surface tension from the experimental ones was found to be 1.63% and 2.46%. Besides, some surface thermodynamic functions such as the surface entropy (S_s) and surface enthalpy (H_s) of

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studied liquids were also computed via our method. The ARD (in %) were found to be equal to 3.94 and 2.44, respectively.

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