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Transactions of the National Association for the Study of Epilepsy and the Care and Treatment of Epileptics

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 30 pages. Original publisher: Aberdeen Proving Ground, MD : Army Research Laboratory, 2007 OCLC Number: (OCoLC)489487226 Subject: Surface active agents. Excerpt: . . . The total free energy of adsorption G can be expressed as the sum of the following free ads energy contributions: , (1) G G G G G G ads elec chem c c c s H bonding vdw G where G 10 kJ mol is the electrostatic interaction term, 25 kJ mol is due to the elec chem G G covalent bonding, 1 kJ mol chain segment is the lateral chain-chain interaction, c c c s 1 kJ mol chain segment is the interaction between hydrophobic chains and hydrophobic surface G sites, 10 kJ mol is the hydrogen bonding interaction term, and 0. 1 kJ mol is G vdw H bonding the term due to van der Waals forces. The goal in surfactant design is to tailor the distribution of functional groups to promote hydrogen bonding and electrostatic attraction to the particle surface. 5. 2 Acid Base Behavior of Functional Groups As described next, the acid base behavior of a particular...



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