

The effect of hydrophobic chain length on surface properties of enzymatically prepared *n*-alkylesters of glucuronic acid

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Abstract

The effect of hydrophobic chain length on surface properties of enzymatically prepared *n*-alkylesters of glucuronic acid is examined. Dynamic parameters from Hua and Rosen's mathematical model and equilibrium surface tension are presented for esters with octyl, decyl, dodecyl and tetradecyl alkyl segment.

Increasing the alkyl chain length has a significant influence on the surface activity. Decyl and dodecyl glucuronate present an interesting adsorption speed associated with foaming capacity. Octyl glucuronate exhibits a micellar organisation when its bulk concentration is over 10.68 mM.