

Summary

Cationic surfactants as the hydrolytic micellar catalysts

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The effectiveness of hydrolytic cleavage of the pesticide fenitrothionin cationic surfactants micellar media has been tested. All used surfactants increased the rate of fenitrothionhydrolysis, which was the evidence of micellar catalysis. For some surfactants decreases has been evident at the highest rate of hydrolysis concentrations. It has been the result of a phenomenon called the effect of empty micelles. High hydrolytic performance was achieved with surfactants contained ionisable hydroxyl groups in the molecule. The most significant increase of kinetic rate has been observed with benzoxonium surfactant.