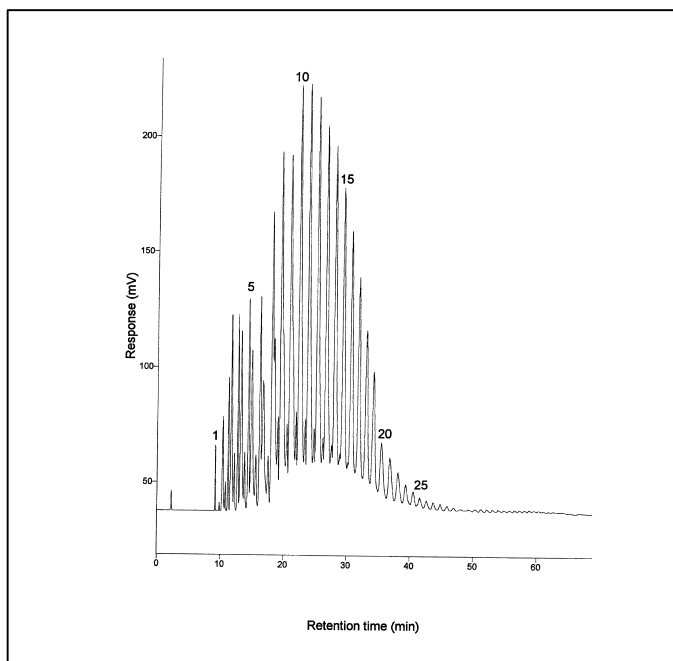


Analysis of Nonionic Surfactants with Polyoxyethylene Chains By HPLC



Separation of ethoxylated Lial 125

Witold Miszkiewicz and Jan Szymanowski, Critical Reviews in Analytical Chemistry 25(4):203-246 (1996)

Nonionic surfactants comprise, after their anionic counterpart, the most important class of surfactants. The reason for the use of polyoxyethylene nonionic surfactants in place of ionic surfactants is their good usage properties, their biodegradability and low toxicity in aquatic environment. Nonionic surfactants are broadly used in industry and household. They usually contain one hydrophobic hydrocarbon chain and one hydrophilic group. Among nonionic compounds, surfactants having one or more polyoxyethylene groups are the most important.

Chromatographic conditions :

Column : Hypersil APS 200x2.1x5

Mobile phase A : Hexane

Mobile phase B : H₂O /2-propanol (5/95)

Flow Rate : 0.3 ml/min

Gradient : 0 to 60% in 55 min

ELSD Temperature : 40°C

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