

Metrological evaluation of titration methods and spectrophotometric ones of quantitative analysis of anionic surfactant

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Abstract

For quantitative analysis of surfactants in cleaning agents and detergents different chemical and physicochemical methods can be used. In this research work a comparison study and analytical target profile evaluation of different versions of titrimetric method for anionic surfactant (two-phase titration) and extraction-photometric one both for raw material and final detergents. The two-phase mixed indicator titration method has the repeatability better than the single indicator one and close to spectrophotometric one. All methods studied can be recommended for quantitative determination of sodium laurethsulphate both in raw material and final detergents.

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