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The invention relates to the physico-chemical analysis methods, in particular, to the dodecylsulfate ions content determination in the solutions and industrial waters, as well the dodecylsulfate ion-selective electrodes production.

The summary of the invention consists in the fact that the trinuclear chromium(III) benzoate dodecylsulfate is being used as an electroactive substance in the composition of the ion-selective electrode membrane for dodecylsulfate ions determination , comprising electroactive substance, the solvent-plasticizer and polyvinylchloride polymeric matrix, and as a solvent-plasticizer nitrobenzene and dioctylphthalate is used with the following components relation (mas. %):

nitrobenzene	55
dioctylphthalate	20...25
polyvinylchloride	20...25
trinuclear chromium(III) benzoate dodecylsulfate (mole/kg of the solvent-plasticizer)	10-2...10-3.

The electroactive substance is stable, it is hardly washed out from the electrode membrane and provides suitable electrode caracteristics. As a result the service life and the sensitivity of the electrode are being increased.

Claims: 1
Fig.: 2