*Conductometric titration of sulfate ion in brines from the marine salt industry*

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**Abstract**

Optimal conditions for the rapid and reliable determination by conductometric titration of sulfate ion in brines from marine salt industry are studied in order to obtain accuracy and precise results with a minimal cost. Four samples from different parts of technological process are evaluated with the proposal procedure and using precipitation gravimetry as reference method. Results shows that is possible determinate sulfate ion with an acceptable precision, although the presence of a significant bias of + 6 % in all studied concentration interval was detected. This problem can be corrected multiplying the volumetric analysis result by 0,94 or eliminated developing the titration in ethanol 5 % media.

**Keywords:** sulfate, conductometric titration, brines.