

Study on the Determination of Iodine in Brines and Oil-field Waters by Spectrophotometry

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Abstract:The determination of iodine by spectrophotometry was studied using sodium nitrite as the oxidant. Results indicated that the Lambert-Beer's Law was followed in the range of 4~18ug/mL iodine content, The average recovery was 90%with a precision of 0.068% RSD (n=6). The application of this method to the determination of trace iodine in brines, oil-field waters obtained satisfactory results. The method features with simplicity, rapidness and good accuracy.

Key words:Spectrophotometry; Determination; Brine; Iodide

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