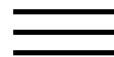


Evaluation of the accuracy of Gran plots by means of computer calculations: Application to the potentiometric titration of the total alkalinity and carbonate content in sea.

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Abstract

The use of computer calculations for the determination of the systematic errors associated with Gran plots is demonstrated. The results of such calculations are used to derive "modified" Gran plots capable of locating the equivalence point both more accurately and more precisely. The general principles are exemplified by application to the determination of the total alkalinity and carbonate content in sea water by means of potentiometric titration.

©sum©

On décrit l'utilisation de calculs par ordinateur pour déterminer les erreurs systématiques, associées aux courbes de Gran. On propose des modifications permettant de localiser le point d'équivalence avec plus d'exactitude et de précision. On donne comme exemple la détermination de l'alcalinité totale et de la teneur en carbonate d'une eau de mer, par titrage potentiométrique.

Zusammenfassung

Es wird die Anwendung von Computer-Rechnungen für die Bestimmung von systematischen Fehlern gezeigt, die mit Gran-Auftragungen verbunden sind. Die Ergebnisse solcher Berechnungen werden für die Ableitung einer modifizierten Gran-Auftragung verwendet, die den Äquivalenzpunkt sowohl mit größerer Genauigkeit als auch größerer Reproduzierbarkeit festlegen. Die allgemeinen Prinzipien werden erläutert, indem die Methode auf die Bestimmung der Gesamtalkalität und des Carbonatgehaltes von Meerwasser mittels potentiometrischer Titration angewendet wird.



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