

May 21, 2013

Dear Hach Customer,

Thank you for your interest in the Hach IntelliCAL Ion Selective Electrodes. We appreciate your inquiry and will try to address your question regarding accuracy of ion selective electrodes (ISEs).

Hach, and other electrochemistry instrumentation providers, do not typically publish accuracy specifications for ion selective electrodes. This is due to the nature of measurement with these types of probes. Their accuracy depends heavily on user technique and measurement variables. These factors include: lab technique, maintenance/care of the electrode, temperature of the samples/ calibration standards, the type of sample being measured, ionic strength of the sample, presence of interfering ions, the concentration of the sample, and age of the sensor. Because of these multiple influencing factors, not all ISE users may achieve the same level of accuracy in their measurements.

However, Hach can offer a general guideline for ISE accuracy based on good lab technique and reasonable control of measurement variables. Within these expectations, a user can expect to achieve **±0.02 mV or 0.05% (whichever is greater)** accuracy with their Hach ion selective electrode.

Please don't hesitate to contact Hach Company with any follow-up questions regarding electrochemistry or any other water quality topic.

Best regards,



Cameron Moyer

Global Product Manager Lab Electrodes
Hach Company
email: cameron.moyer@hach-lange.com
phone: +49 211.5288.303