

## PRINCIPLE OF ION SELECTIVE ELECTRODE%0A

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Principle of ion-selective electrode (I.S.E.) An ideal I.S.E. consists of a thin membrane across which only the intended ion can be transported. The transport of ions from a high conc. to a low one through a selective binding with some sites within the membrane creates a potential difference. See Fig. 15-8 for the development of a potential difference across a calcium-ion selective membrane

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### **Ion Selective Theory Ionode Electrodes**

Ion Selective Electrode Theory. An Ion selective electrode is a sensor which converts the activity of a specific ion (dissolved in a solution) into a voltage (potential), which can be measured by a mV or Ion meter. The voltage is theoretically dependent on the logarithm of the ion activity, as described by the Nernst Equation.

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### **Basics of an Ion Selective Electrode**

Ion selective electrodes are membrane electrodes that produce a potential by converting the activity of ions dissolved in a solution. The potential can be measured using a pH meter or voltmeter. The first ion-selective electrode, the glass electrode was discovered by Cremer in 1906.

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### **Ion selective electrode Wikipedia**

An ion-selective electrode (ISE), also known as a specific ion electrode (SIE), is a transducer (or sensor) that converts the activity of a specific ion dissolved in a solution into an electrical potential. The voltage is theoretically dependent on the logarithm of the ionic activity, according to the Nernst equation.

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### **3 ION SELECTIVE ELECTRODES cffet net**

3. Ion-Selective Electrodes 29 The difference in the number of sites on the inner and outer surface of the membrane causes a voltage that is related to the difference in concentration between the two solutions, as shown in Equation 3.1.

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### **Ion Selective Electrodes ISE Web nmsu edu**

Background -- Ion Selective Electrodes (ISE) are membrane electrodes that respond selectively to ions in the presence of others. These include probes that measure specific ions and gases in solution. The most commonly used ISE is the pH probe.

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### **Determination of sodium with the ion selective electrode**

Application Bulletin 83/5 e Determination of sodium with the ion-selective electrode Page 3/17 Reagents a) Measurements with the glass membrane ISE

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### **Ion selective electrodes A little theory Crison Instruments**

selective for a particular ion. When the selective electrode is immersed in the sample, a potential develops in the membrane, caused by a selective and spontaneous reaction. To measure this potential a reference electrode is required alongside the indicator selective electrode. Variables to be

considered when measuring with an ISE. Measuring range This is the scale of concentration of the ion  
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### **Tutorial on ISE CHEMICAL SENSORS RESEARCH GROUP**

The principle of ion-selective electrodes operation is quite well investigated and understood. An ion-selective membrane is the key component of all potentiometric ion sensors. It establishes the preference with which the sensor responds to the analyte in the presence of various interfering ions from the sample.

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### **Potentiometry Ion Selective Electrodes eDAQ**

Potentiometry: Ion-Selective Electrodes Determination of the sodium monofluorophosphate content of a toothpaste sample using a fluoride ion-selective electrode. 1. Aims The aims of the experiment are to: 1.1 Calibrate a fluoride ion-selective electrode (FISE) and determine over what range of fluoride ion concentrations the electrode has a Nernstian response. 1.2 Use the calibrated FISE to

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### **A GUIDE TO ION SELECTIVE MEASUREMENT**

Ion Selective Book Master 25/5/99 10:55 pm Page 4 If ion selective electrodes are not cleaned after use, and are subject to long term neglect, then the accuracy of the system is lost.

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### **Sensors 2001 1 12 Molecular Diversity Preservation**

glass electrode and why it was assumed that the glass electrode worked on the principle that ions diffused into and through the glass electrode membrane, i.e. why the transport mechanism was introduced for the interpretation of the operation of the glass electrode.

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### **Introduction to Ion Selective electrodes**

Introduction to Ion-Selective electrodes So far you have learned that during the technique of potentiometry, the potential, or voltage, of an electrochemical cell is measured.

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### **Fast Detection of Carbonate and Bicarbonate in Groundwater**

The content of carbonate and bicarbonate in the freshwater varies along with the change of temperature, air pressure and other environmental factors, so it is difficult to determine their real content.

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