

EXERCISE 8

Electrolytes

OBJECTIVE:

To classify several substances as electrolytes or non-electrolytes.

One of the methods of classifying compounds is based on whether the molten compound or its water solution conducts an electric current. If a compound conducts an electric current, it is classified as an electrolyte; if it does not conduct an electric current, it is classified as a non-electrolyte.

Equipment

1. electrical conductance apparatus
2. beakers

Procedure

Test the electrical conductance of 20 ml of each of the following compounds and classify whether the compound is an electrolyte or non-electrolyte.

CH₃OH, C₂H₅OH, H₂O, concentrated HOAc, diluted HOAc, sugar solution, KCl solution, NaCl solution, and HCl

EXERCISE 8

ANSWER SHEET

NAME _____ SECTION _____ DATE _____

<u>Compound</u>	<u>Electrolyte or Non-Electrolyte</u>	<u>Formula for Ions in Solution</u>
CH ₃ OH	_____	_____
C ₂ H ₅ OH	_____	_____
H ₂ O	_____	_____
Concentrated HOAc	_____	_____
Diluted HOAc	_____	_____
Sugar Solution	_____	_____
KCl solution	_____	_____
NaCl Solution	_____	_____
HCl in water	_____	_____