DL 2150 system

DL 2150–CH Kit of components for the study of chemistry

Composed of:

Sensors:

- Gas pressure sensor rubber-stopper assembly
 20 mL syringe plastic tubing with two connectors
- Temperature probe
- pH sensor
- Cables (for sensors connection)

Glassware and laboratory supplies:

- 125 ml Erlenmeyer flasks (2 off)
- 1 liter beakers (4 off)
- 400 ml beaker (2 off)
- 250 ml beaker
- 100 ml beaker
- test tubes (with different diameters)
- 100 ml graduated cylinder
- 50 ml graduated cylinder
- 10 ml graduated cylinder
- glass stirring rod
- pipette
- pipette bulb
- Styrofoam cup

List of experiments:

- 1. Vapor pressure of liquids
- 2. Freezing and melting of water
- 3. The Molar Mass of a volatile liquid
- 4. Acid dissociation constant, Ka
- 5. Determining the enthalpy of a chemical reaction
- 6. Timed-release Vitamin C tablets
- 7. Household Acids and Bases
- 8. Endothermic and exothermic reactions
- 9. Effect of temperature on solubility of a salt
- 10. Determining the phosphoric acid content in soft drinks



Engineering Training Solutions

DL 2150 system

The following accessories, not supplied, must be available in the school laboratory:

Equipment:

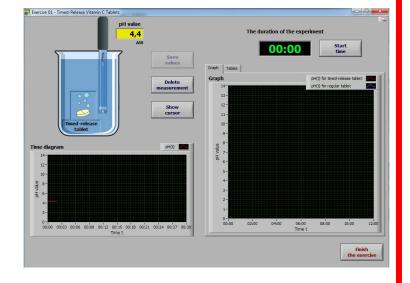
- ring stand
- utility clamp (2 off)
- hot plate
- analytical balance
- magnetic stirrer (if available)
- fume hood
- stirring bar

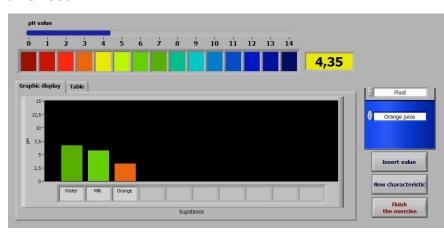
Chemicals and similar elements:

- one 500 mg regular vitamin C tablet
- one 500 mg timed-release vitamin C tablet
- red and blue litmus paper
- methanol
- ethanol
- HC2H3O2
- 2.0 M hydrochloric acid, HCl, solution
- 2.0 M sodium hydroxide, NaOH, solution
- 2.0 M ammonium chloride, NH4Cl, solution
- 2.0 M ammonium hydroxide, NH4OH, solution
- citric acid, H3C6H5O7, solution
- baking soda, NaHCO3
- potassium nitrate, KNO3
- magnesium, Mg
- salt
- unknown volatile liquid fume hood

Other elements:

- wash bottle
- aluminium foil
- tissues or paper towels
- distilled water
- ice
- water
- needle





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