3c. Nitric acid, 1% solution, A.R. grade - Mallinckrodt Chemical Co., Cat. No. 2704. Dilute 14 ml. conc. acid to 1 liter.

SAFETY

Trichlorobenzene, Tri-Tetrachlorobenzene blends and Aroclors are irritating to the skin. The vapors of the hot materials are irritating to the eyes and upper respiratory system. If accidental contact is made with the eyes, flush immediately with large quantities of water. Exercise caution to avoid possible thermal burns through contact with the hot bath or equipment.

DETERMINATION

The following items must be checked before the Determination is started:

a. Check the vapor trap for water or ice. If either is present, clean the trap with water, rinse with acetone, and dry in an oven. Blow trap with air before using.

b. Fill the evacuated flask with dry ice and acetone.

c. Adjust the temperature of the bath to 210 ± 0.5°C.

d. Check to see that the H_2SO_4 and NaOH scrubbers are clear of any turbidity or solid material which might plug up the scrubber.

e. Adjust the air pressure to 24 - 26 mm Hg on the manometer.

1. Weigh on a beam balance 290 ± 1 grams sample into a 300 ml. wide mouth Erlenmeyer flask.

NOTE: See Discussion for glassware cleaning procedure.

2. Insert the absorption flask and position the flask in the bath.

NOTE: The level of the oil in the bath must be approximately one inch below the bottom of the ground glass joint on the flask.

3. Place 15 - 20 ml. distilled water in the absorption flask and stopper tightly with a clean rubber stopper.

4. Connect the purified air supply from the capillary to the inlet down tube in the flask.

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