

# Glass Adapter for Use in Preparing Alkyds

THE LABORATORY PREPARATION of alkyds by the solvent method requires the use of a four-neck flask. The flask is fitted with a stirrer, Dean-Stark water separator equipped with a reflux condenser, gas inlet, thermometer, and sampling device. The sampling device is a tube extending below the surface of the reaction mixture, permitting the removal of samples without loss of solvent or admitting air.

We have found that a simple adapter (Figure 1) makes it possible to use all-glass equipment and permits the use of a standard three-neck flask. This adapter is made from a  $\text{F } 24/40$  joint, which is cut to a length of 18 mm. The joint has to be shortened to allow tubes A and B to pass through. Tube A (O.D. 7 mm) serves as the gas inlet, and Tube B (O.D. 10 mm) holds the thermometer by means of a rubber sleeve. Sampling is accomplished by withdrawing the thermometer and inserting the sampling tube. A convenient sampling tube is obtained by removing the tip from a 25-ml pipet. The size of adapter shown has been used with both one- and two-liter flasks.

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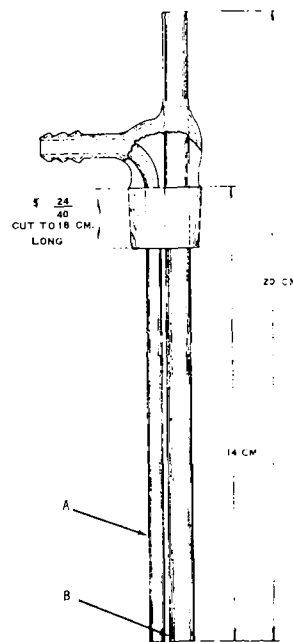


FIG. 1. Glass adapter for use in preparing alkyds.