Reflux Condenser

Rückflusskühler

Georg-August-Universität Göttingen

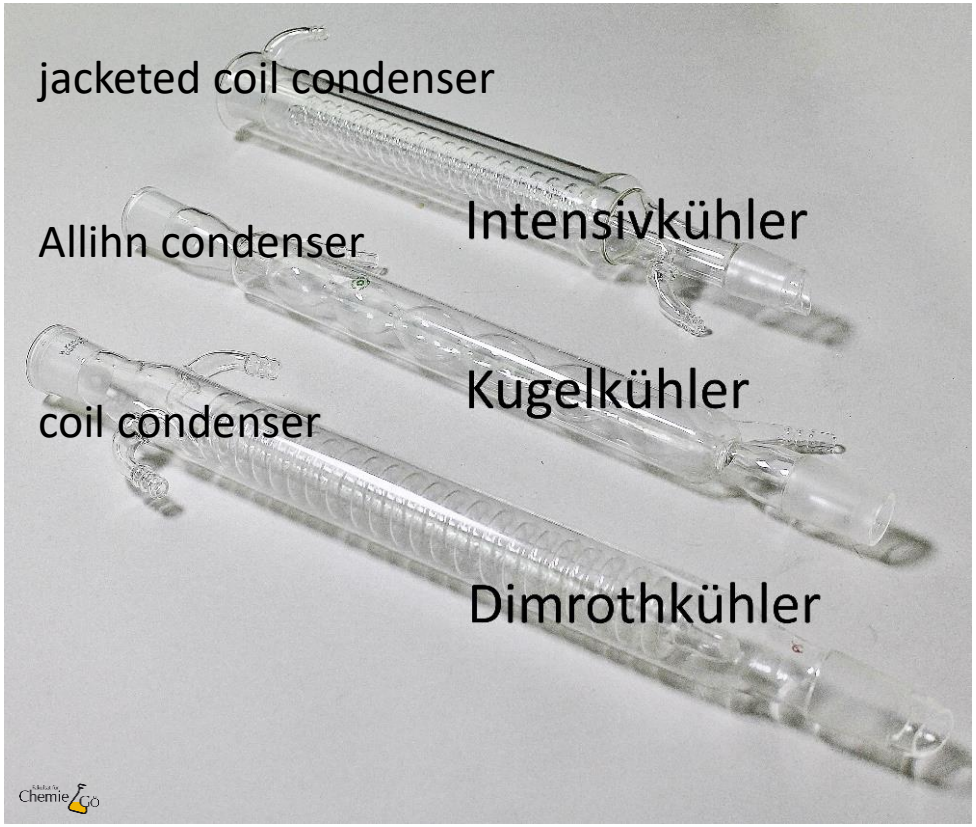
Fakultät für Chemie GÖ

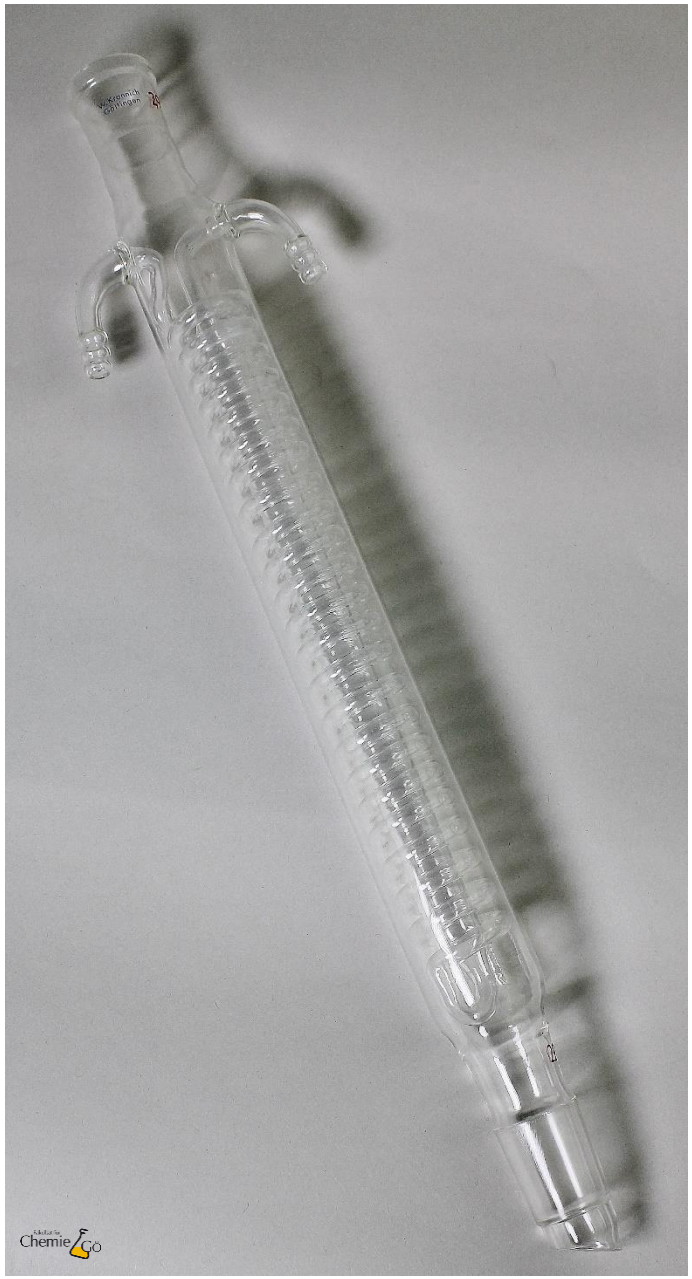
Reflux Condenser

The reflux condenser is used to recover solvent.

In contrast to a Liebig condenser, a reflux condenser is not used for substance separation, but it prevents solvent loss during a reaction.

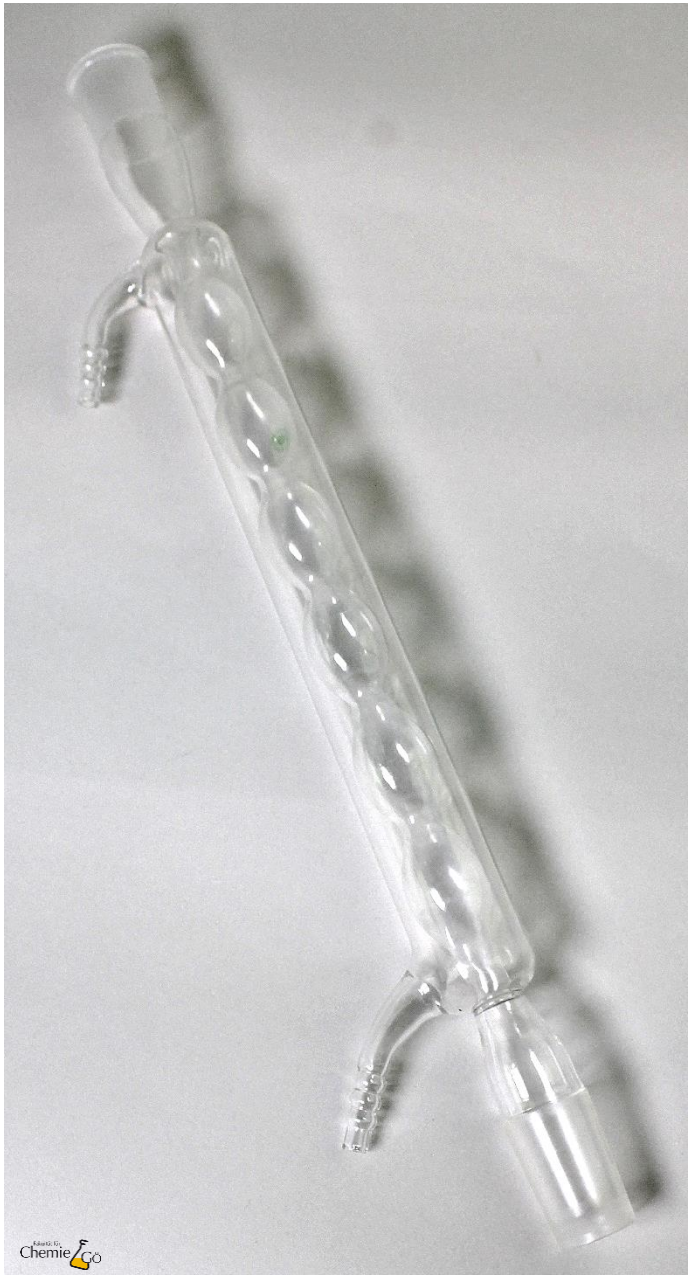
The choice of the reflux condenser (jacketed coil condenser, Allihn condenser or coil condenser) depends on the boiling point of the solvent and the temperature of the coolant.





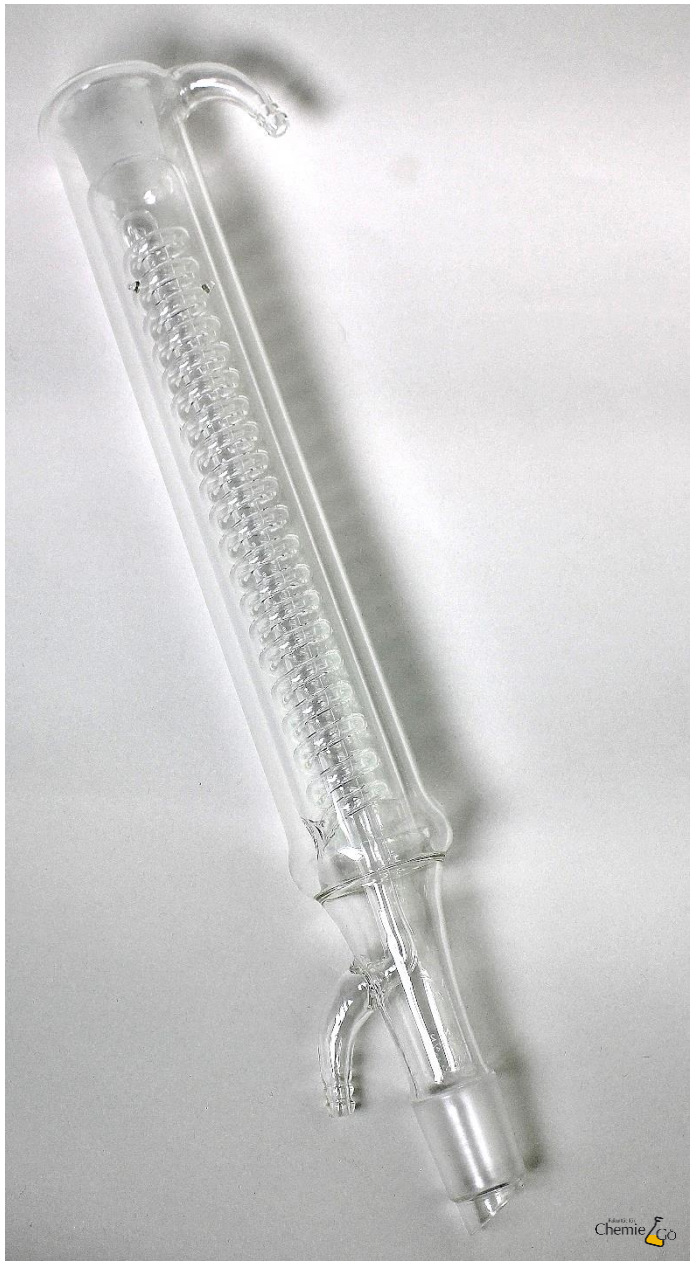
A coil condenser has a **cooling coil**.

It is used as a standard in the lab.



An Allign condenser has a **cooling jacket**.

It is also used as a standard in the lab.



Jacketed coil condensers are used for special applications at very low boiling points.

They have both a **cooling jacket** and a **cooling coil**.

Reflux condenser are secured with a support clamp at the top ground-glass joint.

If the reaction mixture has to be protected from moisture, a filled drying tube is placed on the reflux condenser and secured with a clip.

The cooling water is connected so that the entire cooling area is filled with water.

Depending on the required cooling temperature, water or a water-glycol mixture is used for cooling.