

SOP: Solvent purification system (room Ø330)

Contact person / responsible for the equipment:

Eirin Langseth

eirin.langseth@kjemi.uio.no

Ø 313/328, tlf (228)57201

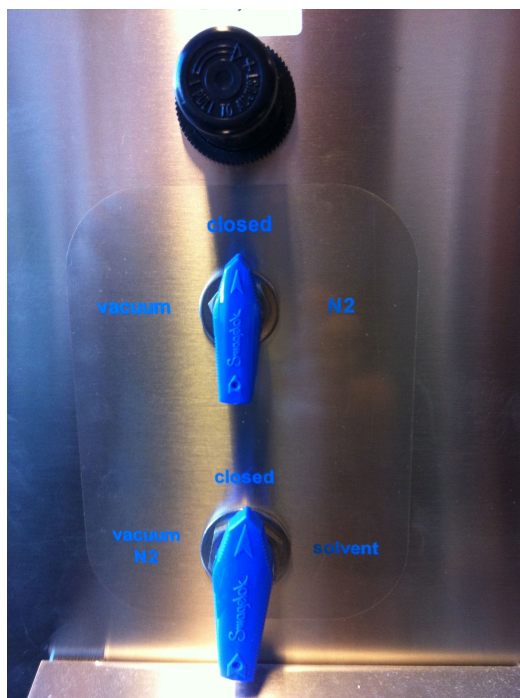
No one is allowed to use the equipment without prior agreement from the responsible the first time

General rules:

- Do not operate more than one solvent line at the same time!!
- Pressure for the solvent lines should be in the 0.3 - 0.5 mbar range
- Write your name and how much solvent you are taking out and what kind, in the blue log-book (makes it easier to keep track of how much solvent is left)
- Always remember to purge nitrogen after filling a solvent (prevents mixing of solvents)
- Turn of the vacuum pump when you are finished
- If something is not working as it should tell the responsible right away

Instructions for use of the solvent purifying system:

1. Ensure that both valves are set to "closed" (see picture below)



2. Connect flask to pipe (see pictures below)



Pipe



Flask connected to pipe

3. Turn lower valve to position "vacuum/N₂"
4. Turn upper valve to position "vacuum" (The flask is now being evacuated) Wait one minute.
5. Turn upper valve to position "N₂" (The flask is now being filled with N₂)
6. Turn upper valve to position "vacuum" (The flask is now being evacuated) Wait one minute.
7. a) **Close lower valve**
b) **Set upper valve to position "N₂" IMPORTANT**
8. a) Slowly turn lower valve to position "solvent" (The solvent is now filled into the flask). Fill flask no more than 2/3 full
b) Close lower valve
9. Turn lower valve slowly to position "vacuum/N₂"
10. Close lower valve and remove flask. Do not use force. The flask should be easily removed.
11. a) **Turn lower valve slowly to position "vacuum/N₂" after placing a beaker under the pipe to remove excess solvent. IMPORTANT**
b) **Close both valves**