Lab Report for 18/10/23:

* The heated magnetic stirrer extraction was done for the 50% ethanol and (pure) ethanol solvents.
* 0.025g and 0.01g of PPE was put in water and ethanol (separately) and boiled in the heating mantle.

Lab Work: (12:00-2:40)

Finishing up of the Magnetic Stirrer extraction tests

* The same procedure as outlined in the 17/10/23 planning document was followed for the above two solvents at 70oC in the magnetic stirrer.

Varying PPE masses test

* Then, 50mL of water and ethanol was measured using a measuring cylinder and were added to the beakers containing the PPE.
* Then the solvent solutions were placed on the heating mantle for ≈5 minutes.
* Then the solutions were filtered and 20mL of each solution was extracted using two 10mL pipettes (one for each solvent).
* Lastly, 10mL of the standard (as measured using a measuring cylinder) was added to each solution then they were all placed on the shaker.
* The instantaneous color change observed for the solutions was a clear olive green color.

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| --- | --- | --- |
|  | **Water** | **Ethanol** |
| **Exact 0.025 measured (g)** | 0.014 | 0.009 |
| **Exact 0.01g measured (g)** | 0.029 | 0.021 |
| **Temperature in the mantle (oC)** | 100 | 80 |

Other

* A new 0.05 moldm-3 CuSO4 standard was prepared using 1.248g of powder.