

Naproxen – Workshop 1

Team work and designing an efficient process



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Part 1 – Team building

Video about team work



Team building

- Step 1 of a successful team project is familiarisation with each other and the project.
- 20 minutes of group discussion:
 - Introduce yourselves
 - Look through your project hand book together
 - Does everyone understand the project and assessment
 - Make a list of the different things that will need to be done
 - Discuss which parts of the project you would prefer to work on
 - Make notes of who would prefer to work on what



Part 2 – Process design

- Experimental details for two lab-scale reactions are given.
- Compare them and work out the different raw material costs to make 15 kg of product using each method.
- H⁺ resin can be reused up to 5 times. What might the potential benefits and drawbacks be?
- Discuss the different heating requirements of the processes. How might the energy requirements effect the cost-effectiveness of each method?



Next time

- In the next lecture we will discuss risk assessment, green chemistry and project costs
- In the next workshop we shall analyse a lab process for its safety and environmental hazards and begin to plan your lab work.



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