

Lab Techniques

Weeks 1 and 2 - Synthesis of 1-bromobutane

Reflux: <http://www.youtube.com/watch?v=zpew98apk3c>

Simple, fractional and steam distillation: <http://www.youtube.com/watch?v=3JlIPnyrZMw>

Liquid-liquid extraction1: <http://www.youtube.com/watch?v=kNX5wNpuw80>

Liquid-liquid extraction2: <http://www.youtube.com/watch?v=vcwfhDhLiQU&feature=related>

Drying with CaCl_2 :

Week 3 - Nucleophilic substitution reactions

Week 4 - Cyclohexene from cyclohexanol

Simple, fractional and steam distillation: <http://www.youtube.com/watch?v=3JlIPnyrZMw>

Liquid-liquid extraction1: <http://www.youtube.com/watch?v=kNX5wNpuw80>

Liquid-liquid extraction2: <http://www.youtube.com/watch?v=vcwfhDhLiQU&feature=related>

Drying with NaCl :

Drying with CaCl_2 :

Filter to remove the calcium chloride from the product:

Week 5 - Cyclohexanol to cyclohexanone

Simple, fractional and steam distillation: <http://www.youtube.com/watch?v=3JlIPnyrZMw>

Liquid-liquid extraction1: <http://www.youtube.com/watch?v=kNX5wNpuw80>

Liquid-liquid extraction2: <http://www.youtube.com/watch?v=vcwfhDhLiQU&feature=related>

Drying with NaCl :

Drying with CaCl_2 :

Filter to remove the calcium chloride from the product:

Steam bath

Aspiration under vacuum

Week 6 - Cyclohexanone to adipic acid

Vacuum Filtration: <http://www.youtube.com/watch?v=9xhwSTaLFKs>

Melting points: <http://www.youtube.com/watch?v=T3HzRPKj1YE>

Week 7 - Sodium borohydride reduction

Liquid-liquid extraction1: <http://www.youtube.com/watch?v=kNX5wNpuw80>

Liquid-liquid extraction2: <http://www.youtube.com/watch?v=vcwfhDhLiQU&feature=related>

Week 8 - Nitration of methyl benzoate

Vacuum Filtration: <http://www.youtube.com/watch?v=9xhwSTaLFKs>

Recrystallization: <http://www.youtube.com/watch?v=Q47hTa1KvN0>

Week 9 - Friedel Crafts Alkylation of 1,4-dimethoxybenzene

Recrystallization: <http://www.youtube.com/watch?v=Q47hTa1KvN0>

Week 10 - Prepare triphenylmethyl methyl ether from triphenylmethanol

Recrystallization: <http://www.youtube.com/watch?v=Q47hTa1KvN0>

Week 11

Week 12

Week 13

Week 14