

Lab XIC pt A
CHM 2211

Reaction & mechanism – this is just a S_N2 reaction from last semester

Chemicals:

1. Sodium Bromide
2. 1-Pentanol
3. 1-Bromopentane, BP
4. 2-Bromopentane, BP
5. Sulfuric acid
6. Sodium Hydroxide
7. Magnesium sulfate

Lab Notes:

2. Measure and add H₂SO₄ in hood!
3. Don't forget boiling chips!!
4. Water in bottom, out top
7. Do in hood!
10. After dry take IR & GC
- 11-12. We will NOT be doing the last distillation!!!

Post-Lab Questions: 2, 4, 5, 6, 7

Conclusion:

1. IR analysis of starting material and product
2. GC analysis of products (Major, minor, retention time, % composition)
3. % yield, **show your work!!**
4. Any problems or changes