

The molecule we chose to synthesize was 2-(benzyloxy) benzyl chloride. A three-step synthesis involving lithium aluminum hydride reduction as well as benzylation and chlorination was used to create this molecule. We decided upon this molecule because it used three reactions we have discussed during organic chemistry lecture. We wanted to apply mechanisms we learned in class to the laboratory and see how these reactions take place in a lab setting. In an attempt to apply green chemistry, we changed a solvent in one step of the synthesis from acetone and ethyl lactate. We also tried changing a reactant from benzyl bromide to benzyl chloride in an attempt to find the most green route of synthesizing 2-(benzyloxy)benzyl chloride.