

Experiment: Synthesis of 1-bromo-3-methylbutane

Experiment Date to be Performed: 3/1/2016

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Purpose: To characterize and synthesize 1-bromo-3-methylbutane via an SN2 reaction from 3-methylbutanol and sodium bromide in the presence of an acid catalyst.

Table of Reagents (modify for the appropriate experiment):

Compound	MW (g/mol)	Amount Needed	milimoles needed	BP	MP	Density	Hazards
3-methylbutanol	88.148 g/mol	0.90 g, 1.11 mL	13.4	131.1 °C	--	0.8104 g/mL	None
NaBr	102.894	1.18 g	11.5	--	--	--	--
Sulfuric Acid	98.079	1.07 mL	--	337 °C	--	1.84 g/mL	highly corrosive strong acid/oxidizer

Procedure Outline:

Note: The only real difference between the technique and synthetic experiment prelabs is the table of reagents and it should be placed in between the purpose and procedural outline.