

RAQUEL ALVARADO

STUDENT, CHEMISTRY



GRIGNARD ADDITIONS INTO UNCONJUGATED ACYL SILANES

An investigation of conjugated acyl silanes was conducted to observe additions in the [1,4] versus [1,2] manner. The preparation of the acyl silane was executed by following the Corey-Seebach reaction process. This involves the transformation of an aldehyde to a dithiane known as thioacetalization. In continuation, the dithiane is lithiated by the carbonyl umpolung method and therefore able to react with an electrophile to form an acyl silane.

Furthermore, the impact of [1,2] and [1,4] addition on Brook rearrangements are discussed.

Research Advisor: Dr. Owen Scadeng

