THE CHEMISTRY OF \( \alpha \)-FLUOROMETHYL PHENYL SULFONYL CARBANIONS

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With compliments
of

A THESIS SUBMITTED IN PARTIAL FULFILLMENT
OF THE REQUIREMENTS FOR
THE DEGREE OF MASTER OF SCIENCE
(ORGANIC CHEMISTRY)
FACULTY OF GRADUATE STUDIES
MAHIDOL UNIVERSITY
2001

ISBN 974-04-1042-1

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KEY WORDS : α-FLUOROSULFONE/ IMINES/ PIPERIDINE/ ADDITION REACTION


The objective of this research was to study the addition of α-fluoromethyl phenyl sulfonyl carbanion to imines.

Diastereoselectivities and yields of α-fluoro-β-aminosulfones depended on the amount of base (LDA) employed. Increasing the amount of LDA gave higher yields, but resulted in less diastereoselectivities. Under the conditions with and without HMPA, the inversion of diastereoselectivies was obtained. By this approach, alkylated products and piperidine derivatives could be prepared in a one-pot reaction by trapping the anionic intermediate with iodopropane and 1,3-diiodopropane, respectively. Desulfonfylation of piperidine derivatives with Na/Hg took place in good yields.

The results showed that adding α-fluoromethyl phenyl sulfonyl carbanion to imines provided moderate to good yields of α-fluoro-β-aminosulfones. In addition, alkylated products and piperidine derivatives could be obtained in moderate yields.
กรณีปฏิกรณ์การเติมออกไซล์ฟูโอโรเมทิลเฟนิลฟูโซนิลคาร์บานิโอน (THE CHEMISTRY OF $\alpha$-FLUOROMETHYL PHENYL SULFONYL CARBANIONS) คณะเคมีการควบคุมวิทยาการศึกษา: วิชย์ รัศมิตรกูล, Ph.D., มนัส พรหมโคตร, Dr. rer. nat., ปิยะวัฒน์ ผู้ยิ่งนุช, Ph.D., 176 หน้า ISBN 974-04-1042-1.