

عنوان مقاله:

Synthesis of halo esters by using of metal (II) Schiff base complexes improved by effect of single-wall carbon nanotube

محل انتشار:

دومین کنگره بین المللی علوم و فناوری نانو (سال: 1387)

تعداد صفحات اصل مقاله: 2

نویسندگان:

Hossein naeimi - *Department of Chemistry, Faculty of Sciences, University of Kashan, Kashan, ۸۷۳۱۷, Iran*

sahar farzaneh dastjerdy - *dastjerdy*

خلاصه مقاله:

Epoxide is one of the most useful synthetic intermediates in organic synthesis [1]. Because of their ring strain and high reactivity, their reaction with various nucleophiles lead to high regio and stereo selective ring opening products. For instance epoxides ring-opening with nucleophilic agent is an easy step for the preparation of several 1, 2-disubstituted products [2]. Ring-opening reaction of these compounds is a powerful method for the stereoselective carbon-carbon bond formation, due to the availability of various chiral epoxides in an enantiomerically pure form [3]. Epoxide ring-opening reaction to give β -substituted alcohols with carbon and heteroatomic nucleophiles, rearrangement reactions providing carbonyl compounds, and isomerization reactions leading to allylic alcohols are useful tools in organic synthesis and most of these reactions generally proceed under basic or acidic conditions. In fact, several reagents are able to promote ring-opening reaction of epoxides [4-5]. Some of these reactions have a waste of time and we can improve reaction conditions by means of catalysts. Also we can modify and power catalysts by use of special type of carbon nanotubes as single-walled carbon nanotubes, SWCN; they are a new allotropic form of elemental carbon [6].

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/163857>

