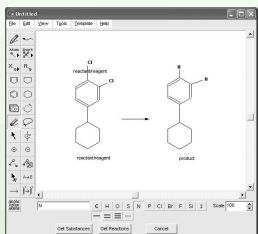
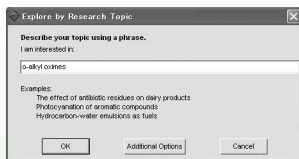


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本文リンク

Organic & Biomolecular Chemistry
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Aza-Reformatsky-type reaction of α -iodomethyl ketone O-alkyl oximes promoted by titanium tetraiodide

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Titanium tetraiodide promotes an aza-Reformatsky-type reaction of α -iodomethyl ketone O-alkyl oximes with carbonyl compounds to give β -hydroxy ketone O-alkyl oximes in good to high yield.

Since the introduction of metallo-enamines (aza-enolate) by the groups of Stock,^{1,4} Wang,¹⁶ and Corey,^{15a} the power of these species has eliminated several drawbacks associated with the alkylation of enolates.¹ Aza-enolates are usually generated by deprotonation of the parent amino species with strong bases. Although reductive generation of enolates from α -halo carbonyl compounds has eliminated some drawbacks as exemplified in the Reformatsky-type reactions, e.g. the reactions can be conducted in the absence of strong bases, the generation of aza-enolate via the reduction of α -halo imino species² has received little attention. We have already reported a Reformatsky-type reaction using **TiI₄** as a reducing reagent for α -iodo ketones.³ In that reaction, the reducing ability and the Lewis acid

Detail of Reference 1

Bibliographic Information

Aza-Reformatsky-type reaction of α -iodomethyl ketone O-alkyl oximes promoted by titanium tetraiodide. Shimizu, Makoto; Toyoda, Tadahiro. Department of Chemistry for Materials, Mie University, Tsu, Japan. *Organic & Biomolecular Chemistry* (2004), 2(20), 2891-2892. CODEN: OBCRAK. ISSN: 1477-0520. Journal written in English. CAN 142:37680 AN 2004 832298 CAPLUS

Abstract

Titanium tetraiodide promotes an aza-Reformatsky-type reaction of α -iodomethyl ketone O-alkyl oximes (ICH₂CR₁NOR₂ (R₁ = Me, Ph, R₂ = Me, PhCH₂) with aldehydes R₃CHO (R₃ = Ph, 4-ClC₆H₄, PhCH₂OH, PhNO₂CH₂, etc.) to give β -hydroxy ketone O-alkyl oximes: R₃CH(OH)CH₂CR₁NOR₂ in good to high yields.

Indexing - Section 21-2 (General Organic Chemistry)

Oximes
Role: RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent)
[O-alkyl], prepn. of β -hydroxy-O-alkyl oximes via Ti₄-promoted aza-Reformatsky-type reaction of O-alkyl iodomethyl oximes with aldehydes

Reformatsky reaction
Reformatsky reaction catalysts
(aza, prepn. of β -hydroxy-O-alkyl oximes via Ti₄-promoted aza-Reformatsky-type reaction of O-alkyl iodomethyl oximes with aldehydes)

Aldehydes, reactions
Role: RCT (Reactant), RACT (Reactant or reagent)

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検索語の組合せ: すべて含む | どれか含む | すべて含む

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Faculty of Bioresources, Mie University
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所属 : Hasegawa

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伊勢湾漁村の形成と漁業
—明治期の三重県を対象として—

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Formation of Fishing Villages and Fisheries in Ise Bay
—Case Study on Fishing Villages in the Meiji Era—

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Abstract

In this paper, we analyze the development of fishing in Ise Bay, and the formation of fishing villages in the Meiji Era. The Meiji Era is the period before the Taisho-Showa Era when Japanese fishing and fishing villages underwent rapid development. By studying the fishing of Ise-Bay in the Meiji Era, and formation of fishing villages, the conditions of development of Ise-Bay's fishing can be clearly shown. We study the following in this paper.

(1) In the Edo Era, fishing villages were formed early in the Hokusai area. These fishing villages were different in the conditions of agriculture. In such factors, fishermen had already caught fishes in the offshore fishery of Aichi Prefecture in the Meiji Era, and they have continued catching fishes for over 100 years.

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