

Correction to "Enantioselective Ruthenium-Catalyzed 1,3-Dipolar Cycloadditions between C-Carboalkoxy Ketonitrones and Methacrolein: Solvent Effect on Reaction Selectivity and Its Rationale"

Khalid B. Selim, Arnaud Martel, Mathieu Y. Laurent, Jérôme Lhoste, Sandrine Py, and Gilles Dujardin* *Journal of Organic Chemistry* **2014**, *79* (8), 3414–3426. DOI: 10.1021/jo5001737

The structures based on DFT calculations were performed on the (S,S) complex and mistakenly attributed to the (R,R) complex. Consequently, the following corrections should be performed for a better appreciation of the article.

Page 3417, top. The text "To facilitate the calculations and to avoid ambiguity on the position of the anion, the complexes were calculated in absence of the anion from the geometry given by the X-ray structure described by Kündig et al. 9f " should be replaced by "To facilitate the calculations and to avoid ambiguity on the position of the anion, the complexes were calculated in absence of the anion from the geometry given by the X-ray structure described by Kündig et al. on the (S,S) complex. 9f "

Scheme 3 should be replaced by the one below displaying the correct configuration of the stereogenic centers:

Scheme 3. Energy Difference Associated with the Exchange of Acetone in the Complex

The caption of Figure 2 should be replaced by: "Structure of the complex-(S,S)-1 with one molecule of MTBE."

The caption and right structure of Figure 3 should be replaced as follows:

Pages 3418 and 3419. Each instance of "methacrolein-(R,R)-1 complex **A**" should be replaced by "methacrolein-(S,S)-1 complex **A**"

The caption and lower scheme of Figure 6 should be replaced as follows:

Page 3419. "Methacrolein-(R,R)-1-SbF₆" should be replaced by "Methacrolein-(S,S)-1-SbF₆".

The caption of Figure 7 should be replaced by "Methacrolein–(S,S)-1-MTBE-SbF₆ complex".

In the Supporting Information (file 2), all complexes described as (R,R) are (S,S) complexes, and in the Supporting Information (file 1), all of the structures of the exo adducts and their derivatives should be attributed to the relative configuration $(3S^*,5S^*)$.

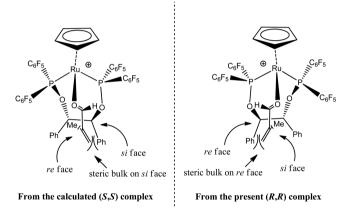


Figure 3. Structure of the complex- (R_iR) -1 with one molecule of methacrolein and the proposed approach of the nitrone.

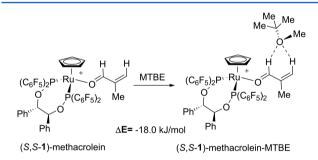


Figure 6. Calculated structure of the full complex methacrolein-MTBE-Ru-catalyst (S,S)-1 energy gained through the interaction with MTBE.

In the Experimental Section, the stereochemical assignments for all exo adducts and their derivatives were mistakenly reported as (3R,5R), and these should be corrected to $(3S^*,5S^*)$ for compounds 3a-exo, 3e-exo, 3f-exo, 3g-exo, 8a-exo, 8e-exo, and 8g-exo.

Published: October 27, 2015