

For stereodefined tetrasubstituted enol ethers in non-cyclic system: Corey; Aggarwal, Tidwell, Prandi, Marek, Zakarian, Myers, Takeda.....

Aldol...







Yury Minko, Morgane Pasco, Luckas Lercher, Accepted for publication

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and/or

LnN

See also P. Wender and K. Houk, JACS 2012

Reviews

Crabtree, *CR* 1985; Jones, *Nature* 1993; Johnson, *CR* 1994; Brandi, *CR* 1998; Milstein, *ACIE* 1999; de Meijere, *TCC* 2000; Kondo, *Synlett* 2001; Yamamoto, *ASC* 2002; Milstein, *CR* 2003; Uemura, *Synlett* 2004; Jun, *CSR* 2004; Murakami, *BCSJ* 2006; Kotora, *COC* 2007; Gevorgyan, *CR* 2007; Shi, *COC* 2007; Marek, *ACIE* 2007; Cramer, *OBC*, 2009; Pelissier, *ASC* 2010; Marek, *CEJ* 2010; Murakami, CC 2011; Aissa, *Synthesis* 2011; Ruhland, *EJOC*, 2012.



JACS 2002, 124, 10282; JACS 2003, 125, 13258; ACIE 2006, 45, 465.







H₃C

Bu

84%

E/Z 100/0

er 98:2

Me

Ozonolysis

H₂, Pd/C

P. Knochel, ACIE 2005, 44, 4627

H₃C

Bu

95%

er 98:2

Cp₂ZrCl₂/ 2 n-BuLi

-78 °C to rt, Et₂O, 13 h

then H₃Õ⁺

Bu,

Ft

E/Z 98:2

er 98:2

Application to the synthesis of an even more *beautiful molecule.....(top-model)*

Enantiomerically pure deuterated neopentane....



R OH

Unpublished results

dr >99/1 er 98/2

 $R^2 R^1 R^1$

ŌН

OCb

OH

For determination of absolute configuration, see: Haesler, Schindeholz, Riguet, Bochet, Hug, Nature, 2007, 446, 526







A. Masarwa, Unpublished work

