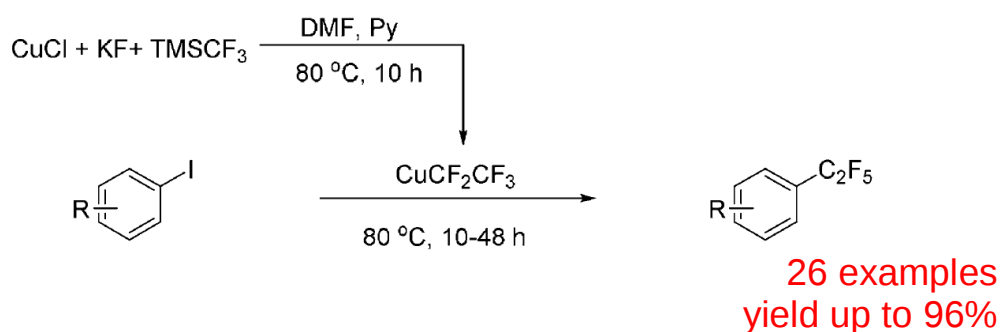


From C₁ to C₂:TMSCF₃ as a Precursor for Pentafluoroethylation

Qiqiang Xie, Lingchun Li, Ziyue Zhu, Rongyi Zhang, Chuanfa Ni, and Jinbo Hu

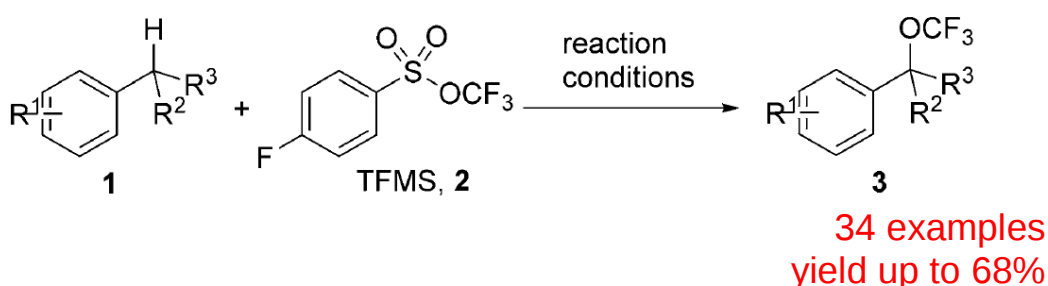
Angew. Chem. Int. Ed., 2018, 57, 13211-13215



Silver-Promoted Oxidative Benzylic C-HTrifluoromethoxylation

Haodong Yang, Feng Wang, Xiaohuan Jiang, Yu Zhou, Xiufang Xu, and Pingping Tang

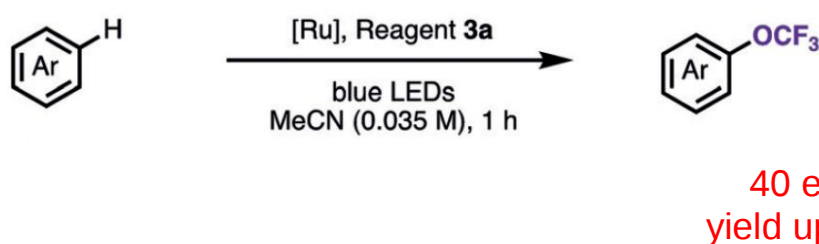
Angew. Chem. Int. Ed., 2018, 57, 13266-13270



Radical Trifluoromethoxylation of Arenes Triggered by a Visible Light-Mediated N-O Bond Redox Fragmentation

Benson J. Jelier, Pascal F. Tripet, Ewa Pietrasiak, Ivan Franzoni, Gunnar Jeschke, and Antonio Togni

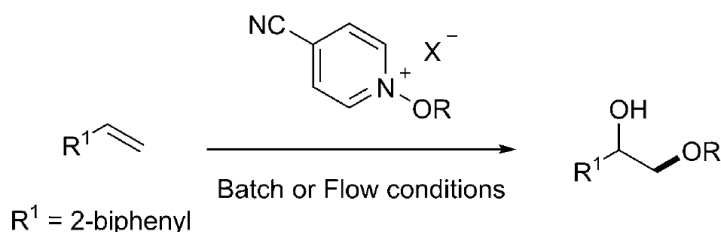
Angew. Chem. Int. Ed., 2018, 57, 13784-13789



Alkoxy Radicals Generated under Photoredox Catalysis: A Strategy for anti-Markovnikov Alkoxylation Reactions

Anne-Laure Barthelemy, B  atrice Tuccio, Emmanuel Magnier, and Guillaume Dagousset

Angew. Chem. Int. Ed., 2018, 57, 13790-13794

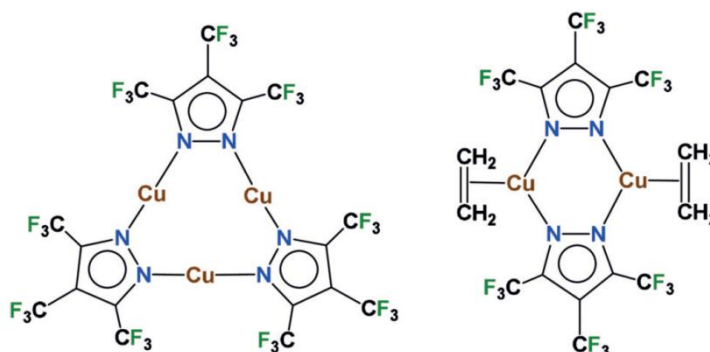


13 examples
yield up to 74%

Low Heat of Adsorption of Ethylene Achieved by Major Solid-State Structural Rearrangement of a Discrete Copper(I) Complex

Naleen B. Jayaratna, Matthew G. Cowan, Devaborniny Parasar, Hans H. Funke, Joseph Reibenspies, Pavel K. Mykhailiuk, Oleksii Artamonov, Richard D. Noble, and H. V. Rasika Dias

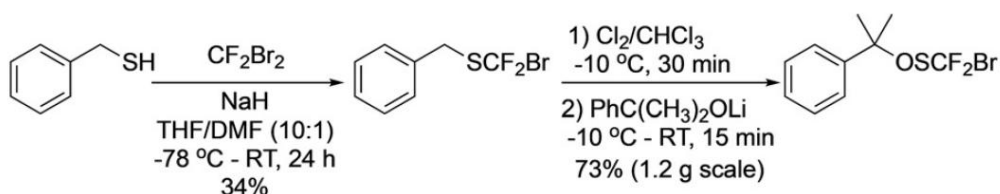
Angew. Chem. Int. Ed., 2018, 57, 16442-16446

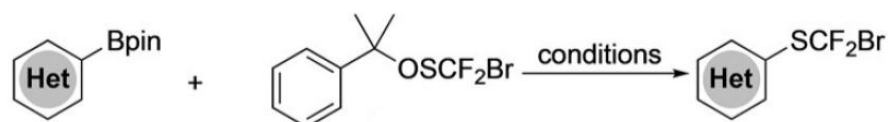


Synthesis and Reactivity of α -Cumyl Bromodifluoromethanesulfenate: Application to the Radiosynthesis of $[^{18}\text{F}]\text{ArylSCF}_3$

Jiang Wu, Qunchao Zhao, Thomas C. Wilson, Stefan Verhoog, Long Lu, V  ronique Gouverneur, and Qilong Shen

Angew. Chem. Int. Ed., 2019, 58, 2413-2417



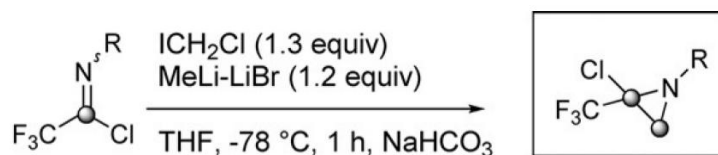


39 examples
yield up to 99%

Telescoped, Divergent, Chemoselective C1 and C1-C1 Homologation of Imine Surrogates: Access to Quaternary Chloro- and Halomethyl-Trifluoromethyl Aziridines

Laura Ielo, Saad Touqeer, Alexander Roller, Thierry Langer, Wolfgang Holzer, and Vittorio Pace

Angew. Chem. Int. Ed., 2019, 58, 2479-2484

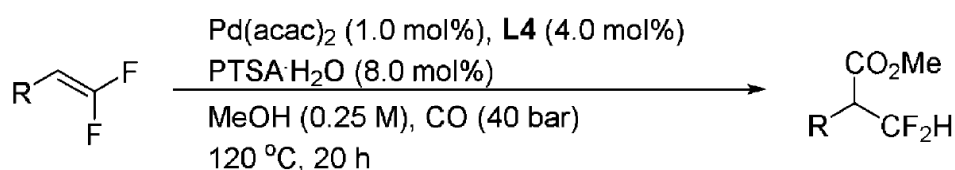


20 examples
yield up to 90%

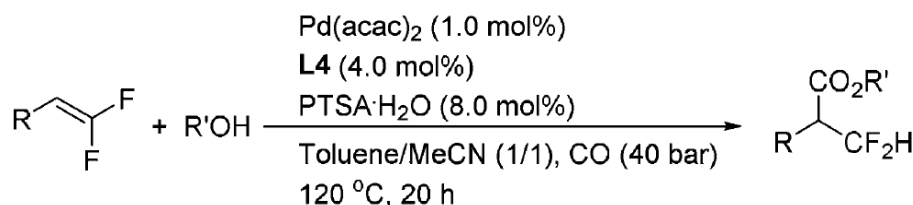
Pd-Catalyzed Selective Carbonylation of gem-Difluoroalkenes: A Practical Synthesis of Difluoromethylated Esters

Jiawang Liu, Ji Yang, Francesco Ferretti, Ralf Jackstell, and Matthias Beller

Angew. Chem. Int. Ed., 2019, 58, 4690-4694



29 examples
yield up to 97%

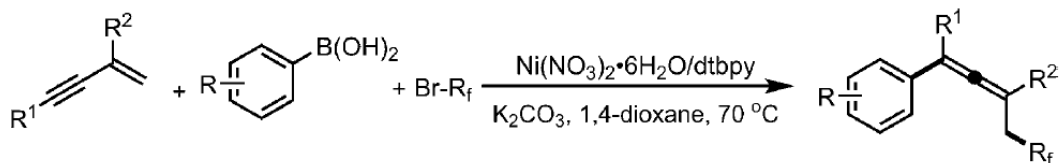


23 examples
yield up to 96%

Nickel-Catalyzed Carbofluoroalkylation of 1,3-Enynes to Access Structurally Diverse Fluoroalkylated Allenes

Kai-Fan Zhang, Kang-Jie Bian, Chao Li, Jie Sheng, Yan Li, and Xi-Sheng Wang

Angew. Chem. Int. Ed., 2019, 58, 5069-5074



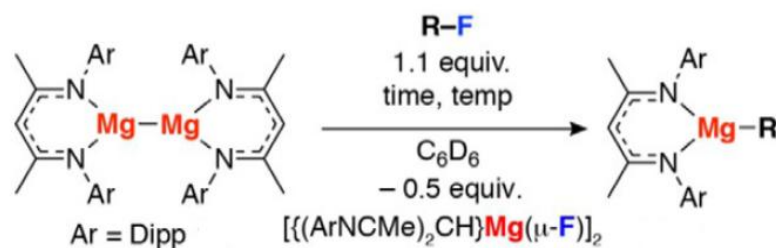
66 examples
yield up to 93%

Chemistry A European Journal

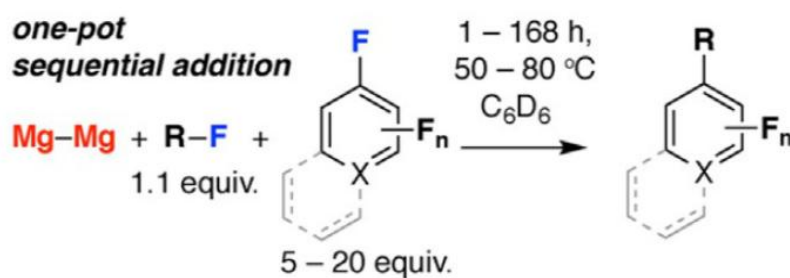
Reactions of Fluoroalkanes with Mg-Mg Bonds: Scope, sp^3C-F/sp^2C-F Coupling and Mechanism

Greg Coates, Bryan J.Ward, Clare Bakewell, Andrew J.P.White, and Mark R. Crimmin

Chem. Eur. J., 2018, 24, 16282-16286



6 examples
yield up to 92%

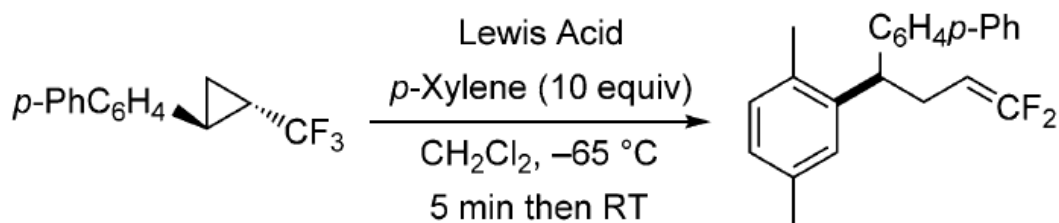


5 examples
yield up to 72%

Single CF Bond Activation of the CF₃ Group with a Lewis Acid: CF₃-Cyclopropanes as Versatile 4,4-Difluorohomoallylating Agents

Kohei Fuchibe, Rie Oki, Hibiki Hatta, and Junji Ichikawa

Chem. Eur. J., 2018, 24, 17932-17935

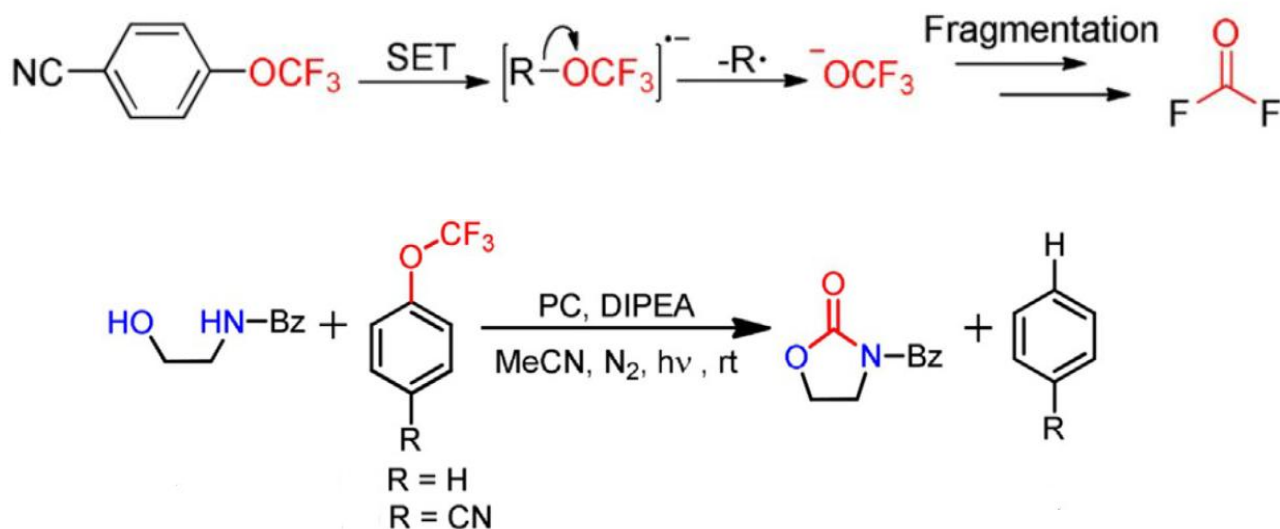


14 examples
yield up to 95%

Visible-Light-Mediated Liberation and In Situ Conversion of Fluorophosgene

Daniel Petzold, Philipp Nitschke, Fabian Brandl, Veronica Scheidler, Bernhard Dick, Ruth M. Gschwind, and Burkhard König

Chem. Eur. J., 2019, 25, 361-366

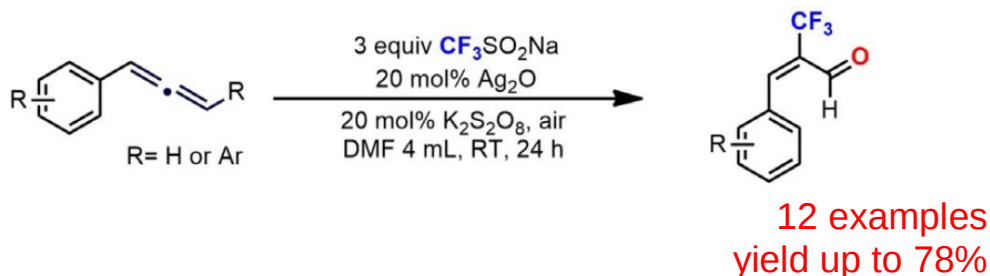


12 examples
yield up to 78%

Trifluoromethylation of Allenes: An Expedient Access to α -Trifluoromethylated Enones at Room Temperature

Massimo Brochetta, Tania Borsari, Andrea Gandini, Sandip Porey, Arghya Deb, Emanuele Casali, Arka Chakraborty, Giuseppe Zanoni, and Debabrata Maiti

Chem. Eur. J., 2019, 25, 750-753

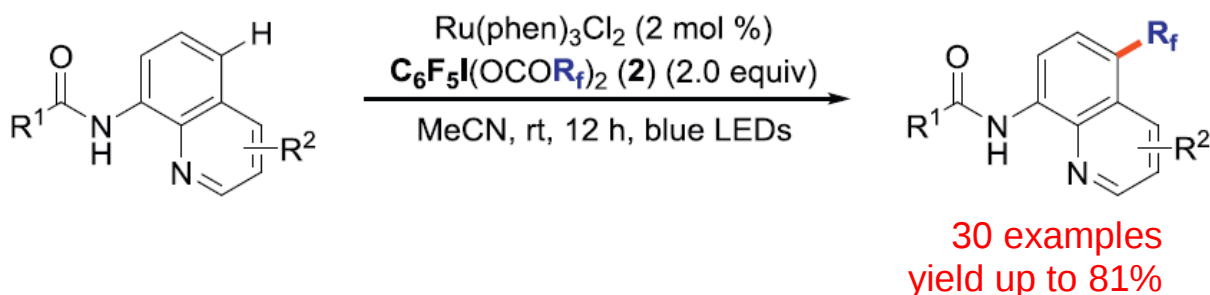


Catalysis Communications

Photoredox-catalyzed perfluoroalkylation of aminoquinolines with hypervalent iodine(III) reagents that contain perfluoroalkanoate

Junfen Han, Guodong Wang, Jian Sun, Hongshuang Li, Guiyun Duan, Furong Li, Chengcai Xia

Catalysis Commun., 2019, 118, 82-85

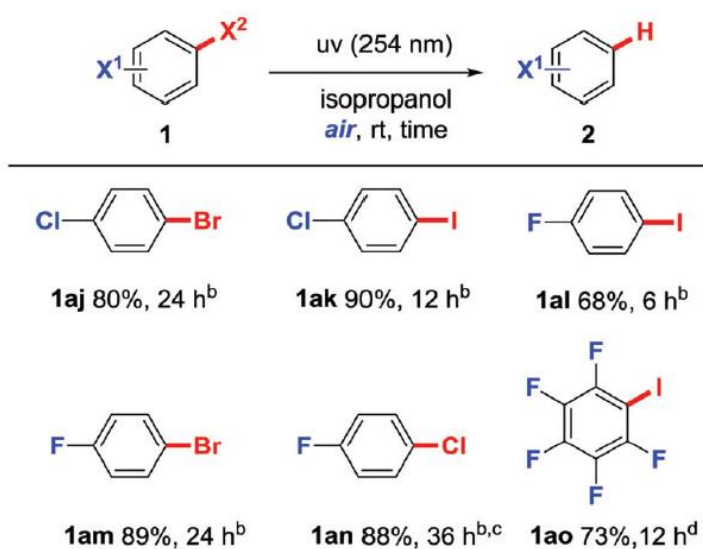


Chemical Communications

Hydrogen bonding promoted simple and clean photo-induced reduction of C–X bond with isopropanol

Dawei Cao, Chaoxian Yan, Panpan Zhou, Huiying Zeng and Chao-Jun Li

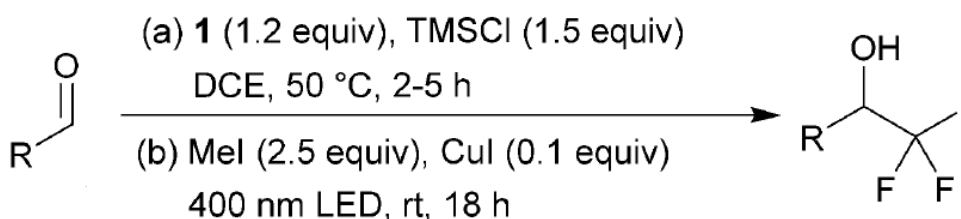
Chem. Commun., 2019, 55, 767-770



Light-mediated copper-catalyzed phosphorus/halogen exchange in 1,1-difluoroalkylphosphonium salts

Liubov I. Panferova, Vitalij V. Levin, Marina I. Struchkova and Alexander D. Dilman

Chem. Commun., 2019, 55, 1314-1317

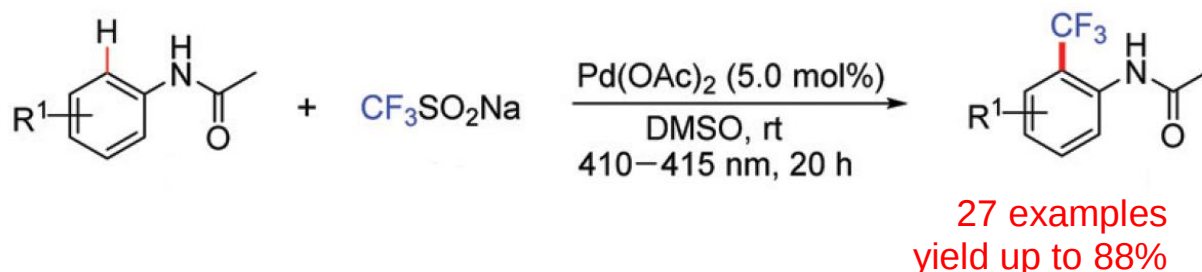


17 examples
yield up to 90%

Visible-light-induced Pd-catalyzed orthotrifluoromethylation of acetanilides with $\text{CF}_3\text{SO}_2\text{Na}$ under ambient conditions in the absence of an external photocatalyst

Long Zou, Pinhua Li, Bin Wanga and Lei Wang

Chem. Commun., 2019, 55, 3737-3740

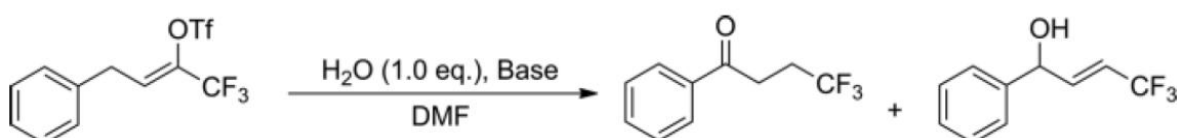


European Journal of Organic Chemistry

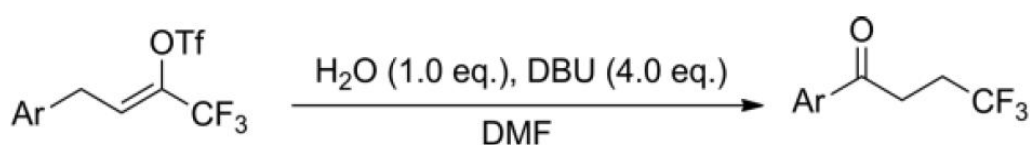
Base-Promoted Double-Bond-Migration/Hydrolysis/Isomerization of 4-Aryl-1,1,1-trifluorobut-2-en-2-yl Trifluoromethanesulfonates: A Metal-Free Approach to -Trifluoromethyl Ketones

Yuhan Zhou, Chunxia Zhang, Yilong Zhao, Dong Li, Jinfeng Zhao, Zhaotian Wang, and Jingping Qu

Eur.J. Org.Chem., 2018, 6217-6222



11 examples

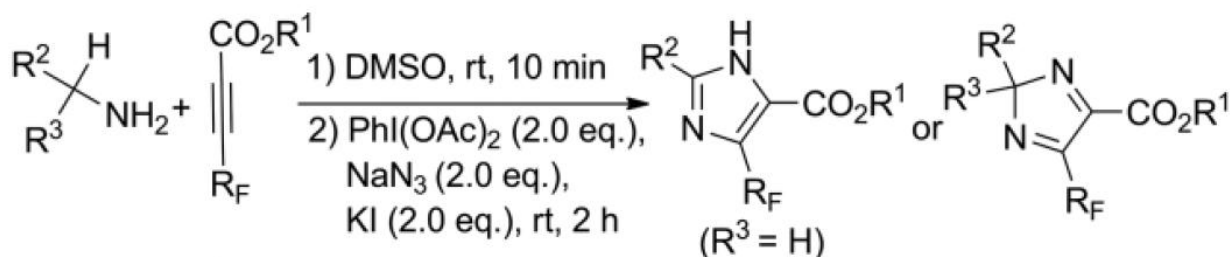


16 examples
yield up to 88%

Efficient Synthesis of Fluoroalkylated Imidazoles via a Metal-Free Cascade Michael Addition/Azidation/Cycloamination Process

Jun Wu, Hui Zhang, Xiao Ding, Xuefei Tan, Hong C. Shen, Jie Chen, Weimin He, Hongmei Deng, Liping Song, and Weiguo Cao

Eur.J. Org.Chem., 2018, 6758-6763

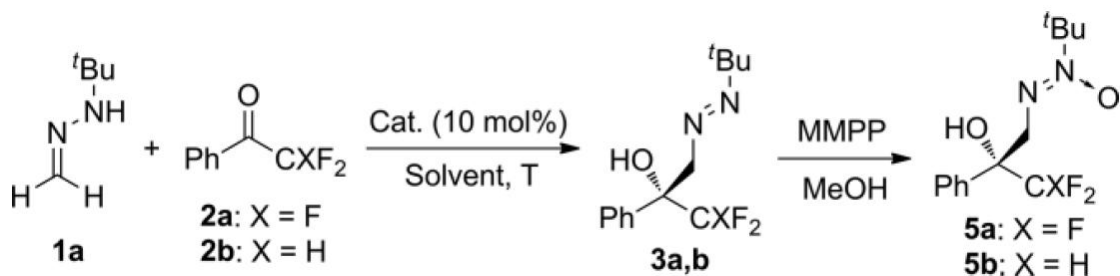


22 examples
yield up to 94%

Asymmetric Organocatalytic Synthesis of Fluorinated β -Hydroxy Diazenes

Esteban Matador, María de Gracia Retamosa, Antonio Jiménez-Sánchez, David Monge, Rosario Fernández, and José M. Lassaletta

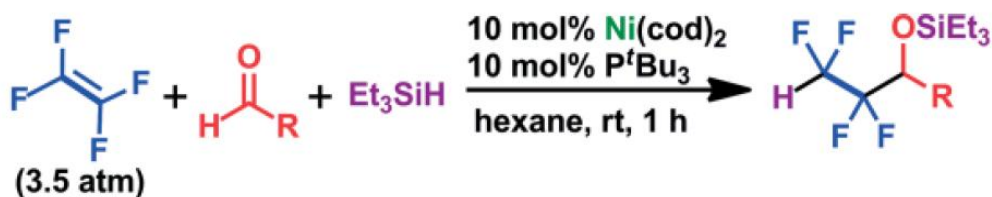
Eur.J. Org.Chem., 2019, 130-138



Nickel-Catalyzed Three-Component Coupling Reaction of Tetrafluoroethylene and Aldehydes with Silanes via Oxa-Nickelacycles

Hiroshi Shirataki, Masato Ohashi, and Sensusuke Ogoshi

Eur.J. Org.Chem., 2019, 1883-1887



16 examples
yield up to 92%