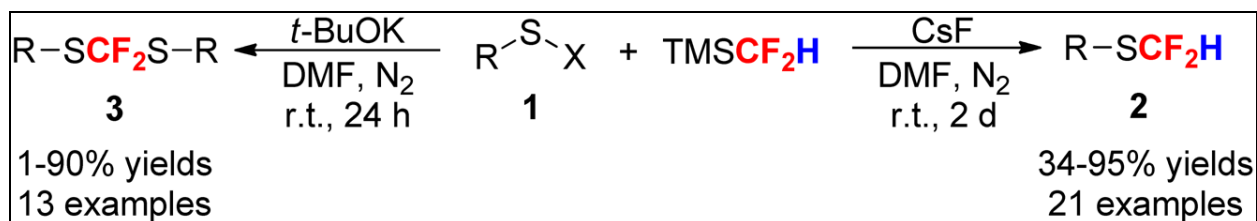


A Metal-Free Diverse Synthesis of Difluoromethylthioethers and Difluorobis(arylthio)methanes from RSX (X = SR, Cl, SO₂Ph) and TMSCF₂H

Jia-Bin Han, Hua-Li Qin, Su-Hong Ye, Lei Zhu, and Cheng-Pan Zhang

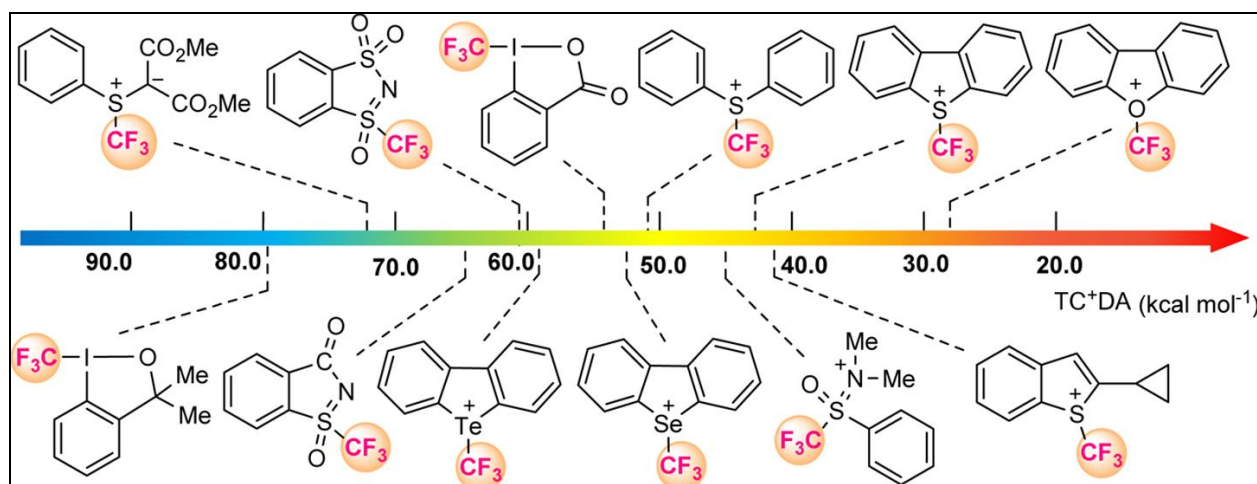
J. Org. Chem. 2016, 81, 2506–2512



An Energetic Guide for Estimating Trifluoromethyl Cation Donor Abilities of Electrophilic Trifluoromethylating Reagents: Computations of X-CF₃ Bond Heterolytic Dissociation Enthalpies

Man Li, Xiao-Song Xue, Jinping Guo, Ya Wang, and Jin-Pei Cheng

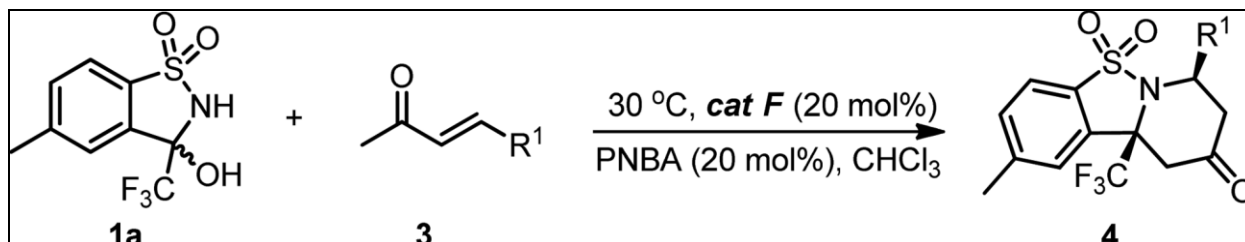
J. Org. Chem. 2016, 81, 3119–3126



Asymmetric Formal Aza-Diels–Alder Reaction of Trifluoromethyl Hemiaminals with Enones Catalyzed by Primary Amines

Sheng Zhang, Lide Cha, Lijun Li, Yanbin Hu, Yanan Li, Zhenggen Zha, and Zhiyong Wang

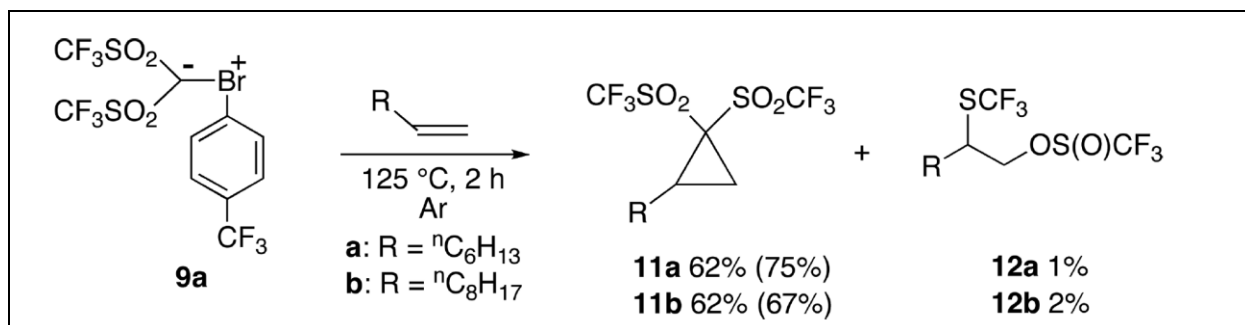
J. Org. Chem. 2016, 81, 3177–3187

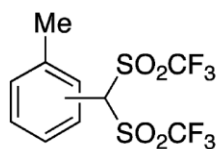
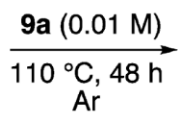
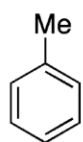


Mechanistic Studies on the Generation and Properties of Superelectrophilic Singlet Carbenes from Bis(perfluoroalkanesulfonyl)bromonium Ylides

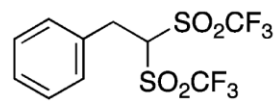
Kazunori Miyamoto, Susumu Iwasaki, Ryusuke Doi, Taiga Ota, Yufuko Kawano, Junpei Yamashita, Yuuta Sakai, Norihiro Tada, Masahito Ochiai, Satoko Hayashi, Waro Nakanishi, and Masanobu Uchiyama

J. Org. Chem. 2016, 81, 3188–3198

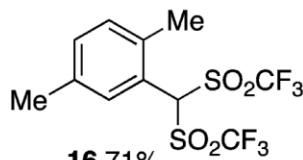
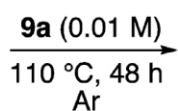
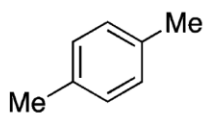




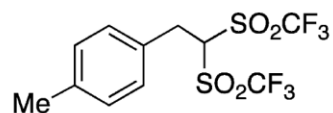
14 82%
(*o:m:p* = 28:30:42)



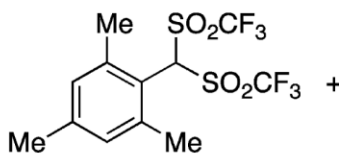
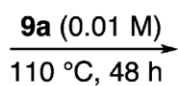
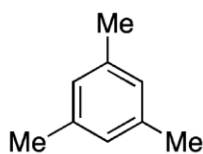
15 2%



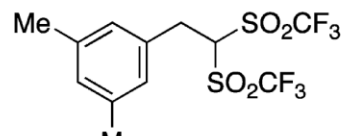
16 71%



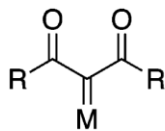
17 11%



18 75%

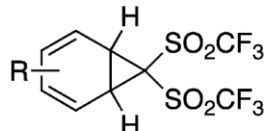


19 12%

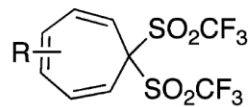


20

(M = Cu, Rh, Ag, Fe, etc.)



21



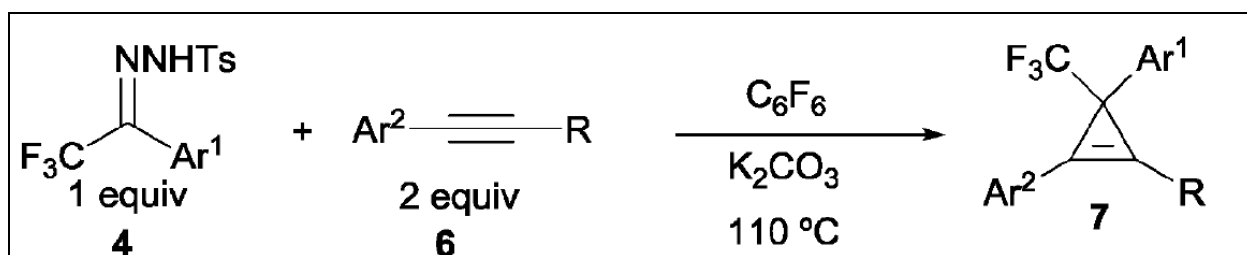
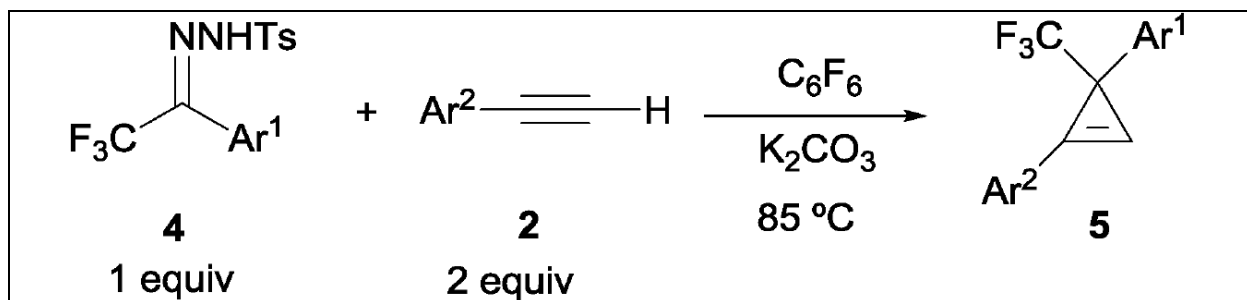
22

Chemical Communications

Synthesis of 1,3-diaryl-3-trifluoromethylcyclopropenes by transition-metal-free reaction of 2,2,2-trifluoroacetophenone tosylhydrazones with alkynes: the effect of the trifluoromethyl group

Raquel Barroso, Azucena Jiménez, M. Carmen Pérez-Aguilar, Mari´a-Paz Cabal and Carlos Valde´s

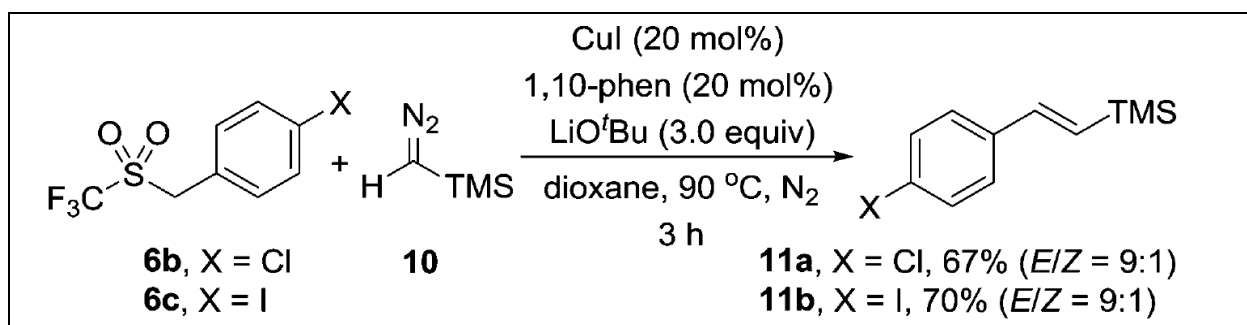
Chem. Commun., 2016, 52, 3677-3687



Copper(I)-catalyzed olefination of N-sulfonylhydrazones with sulfones

Shuai Xu, Yunpeng Gao, Ri Chen, Kang Wang, Yan Zhang and Jianbo Wang

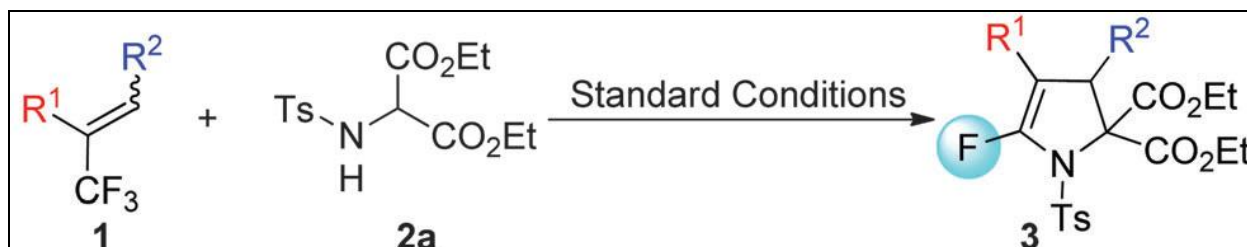
Chem. Commun., 2016, 52, 4478-4480



Synthesis of 2-fluoro-2-pyrrolines via tandem reaction of α -trifluoromethyl- α,β -unsaturated carbonyl compounds with *N*-tosylated 2-aminomalonates

Jieru Yang, Xiaofan Zhou, Yu Zeng, Chaoqian Huang, Yuanjing Xiao and Junliang Zhang

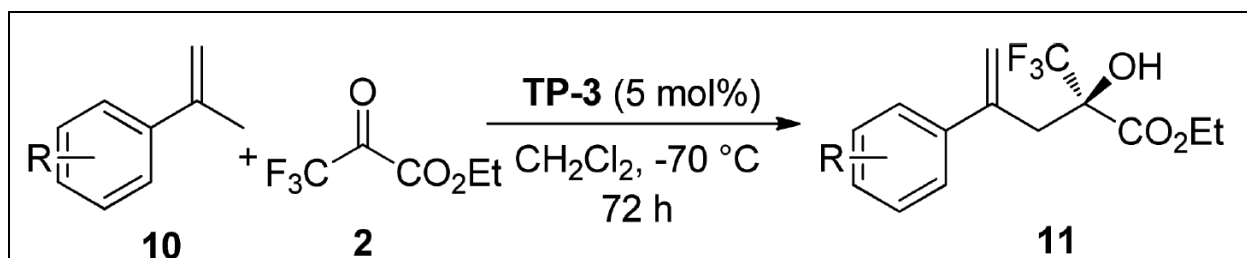
Chem. Commun., 2016, 52, 4922-4925



Asymmetric Latent Carbocation Catalysis with Chiral Trityl Phosphate

Jian Lv, Qichao Zhang, Xingren Zhong, and Sanzhong Luo

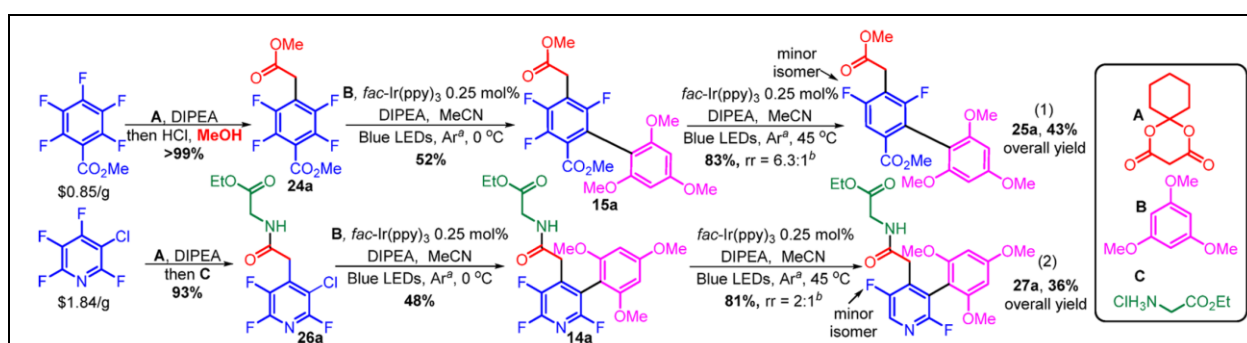
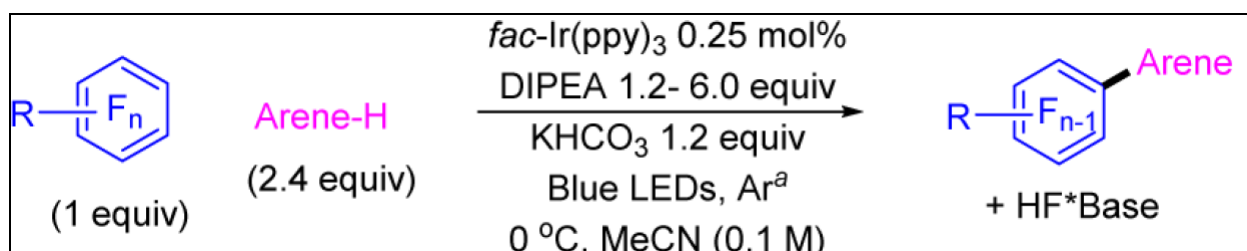
J. Am. Chem. Soc. 2015, 137, 15576–15583



Dual C–F, C–H Functionalization via Photocatalysis: Access to Multifluorinated Biaryls

Sameera Senaweera and Jimmie D. Weaver

J. Am. Chem. Soc. 2016, 138, 2520–2523



Direct Difluoromethylation of Aryl Halides via Base Metal Catalysis at Room Temperature

Long Xu and David A. Vicic

J. Am. Chem. Soc. 2016, 138, 2536–2539

