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Asymmetric Silver-Catalysed Intermolecular Bromotrifluoromethoxylation of Alkenes with a New Trifluoromethoxylation Reagent
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Silver-Catalyzed Intermolecular Bromotrifluoromethoxylation of Alkenes

Significance: The development of new methods to introduce a trifluoromethoxy group into drugs or agrochemicals is important because of the strongly electron-withdrawing nature and high lipophilicity of this moiety. The authors report a silver-catalyzed enantioselective bromotrifluoromethoxylation of alkenes with a new trifluoromethoxylation reagent.

Comment: The developed trifluoromethoxylation reagent, trifluoromethyl 4-fluorobenzenesulfonate, is easily prepared and thermally stable, and shows good reactivity. The bromotrifluoromethoxylation method can be applied to a variety of alkenes, including small, complex molecules.

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