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Title:	A Bottleable Imidazole-Based Radical as a Single Electron Transfer Reagent
Authors:	Adhikari, D. (/jspui/browse?type=author&value=Adhikari%2C+D.)
Keywords:	Electron Transfer
	Molecule tetracyanoethylene
	Catalytic reduction
Issue Date:	2020
Publisher:	American Chemical Society
Citation:	Journal of Organic Chemistry
Abstract:	Reduction of 1,3-bis(2,6-diisopropylphenyl)-2,4-diphenyl-1H-imidazol-3-ium chloride (1) resulted in the formation of the first structurally characterized imidazole-based radical 2. 2 was established as a single electron transfer reagent by treating it with an acceptor molecule tetracyanoethylene. Moreover, radical 2 was utilized as an organic electron donor in a number of organic transformations such as in activation of an aryl–halide bond, alkene hydrosilylation, and in catalytic reduction of CO2 to methoxyborane, all under ambient temperature and pressure.
URI:	https://pubs.acs.org/doi/10.1021/acs.joc.0c02465 (https://pubs.acs.org/doi/10.1021/acs.joc.0c02465) http://hdl.handle.net/123456789/3446 (http://hdl.handle.net/123456789/3446)
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