

Benzo-15-Crown-5 Based Nitronyl-Nitroxide And Imino-Nitroxide Radicals

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Summary

New Benzo-15-Crown-5 based nitronyl-nitroxide and the corresponding imino-nitroxide radicals have been synthesized and characterized. 4'-Formyl-benzo-15-crown-5 reacts with N,N'-dihydroxy-2,3-diamino-2,3-dimethylbutane to yield the N,N'-dihydroxyimidazolidine and the dehydration product N-hydroxyimidazolidine. Mild oxidation of these two species leads to the corresponding stable nitronyl-nitroxide and imino-nitroxide radicals respectively.

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