

Redox Properties of 1,2-Dihydro[60]fullerene Derivatives with Electron-Withdrawing Substituents

Hermann Irngartinger* and Anton Weber

Organisch-Chemisches Institut der Universität, Im Neuenheimer Feld 270,
D-69120 Heidelberg, Germany

* Reprint requests to Prof. Dr. H. Irngartinger. E-mail: e56@ix.urz.uni-heidelberg.de

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The cyclic voltammograms of 1-cyano-2-hydroxy-1,2-dihydrofullerene derivatives indicate a complex redox behavior. The first reduction peak of these new compounds is at less negative values compared to the parent [60]fullerene. This is a consequence of the two electron-withdrawing groups, which are attached directly to the C₆₀ moiety.