Cyclic voltammetry for a preliminary study of appropriate electro-synthesis reactions of naphthalene derivatives

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In the above paper, experimental data of CV oxidation of catechol, presented in a paper by D. Nematollahi and R.A. Rahchamani (2002) [J. Electroanal. Chem. 520:145], were used, as a measure in estimation of electrons transferred (n values) in CV oxidations of naphthalene and its derivatives, i.e. the values shown in Table 3, and cited after our paper [Sioda RE and Frankowska B (2008) J. Electroanal. Chem. 612:147].

It follows from more recent papers [1–3] concerning CV oxidation of catechol, that our earlier estimation may need to be increased by about 30–70%. The proposed change may be understood, taking into account that catechol seems easily oxidizable in air, especially when dissolved.

References

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