

Supporting Information

Dihydrolevoglucosenone (Cyrene[®]), a new possibility of environmentally compatible solvent in synthetic organic electrochemistry

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1. Cyclic Voltammograms

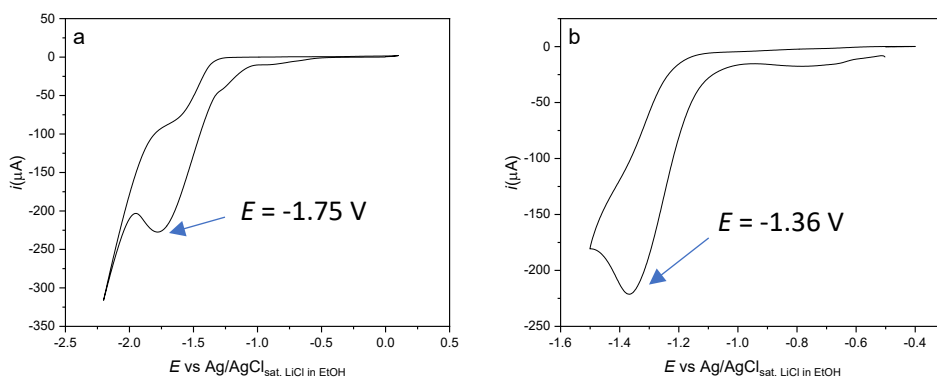


Figure S.1 Cyclic voltammograms of benzophenone 5×10^{-3} M, W: Glassy Carbon (diameter, 3 mm), C: Pt wire, Ag/AgCl sat. LiCl in EtOH as reference electrode, scan rate 100 mV/s, a) supporting electrolyte: Bu_4NBF_4 0.15 M in DLG/EtOH (1:1), b) supporting electrolyte: LiClO_4 0.15 M in DLG/EtOH (1:2).

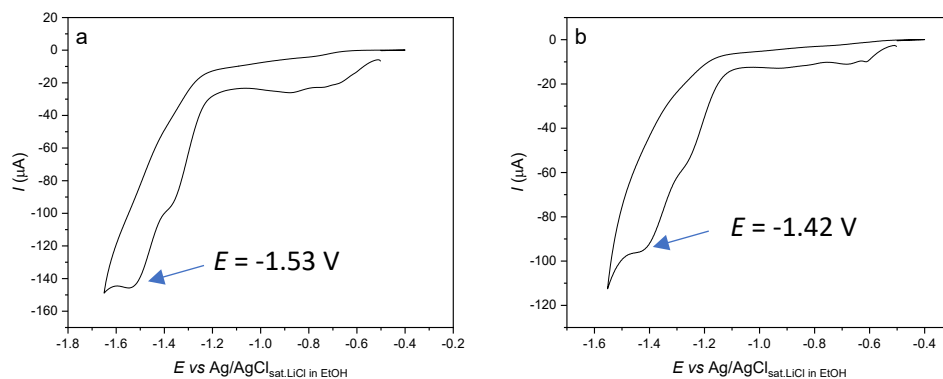


Figure S.2 Cyclic voltammograms of (4-methoxyphenyl)(phenyl)methanone 4×10^{-3} M, WE: Glassy Carbon (diameter, 3mm), CE: Pt wire, RE: Ag/AgCl sat. LiCl in EtOH as reference electrode, scan rate 100 mV/s, a) supporting electrolyte: Bu_4NBF_4 0.15 M in DLG/EtOH (1:1), b) supporting electrolyte: LiClO_4 0.15 M in DLG/EtOH (1:2).

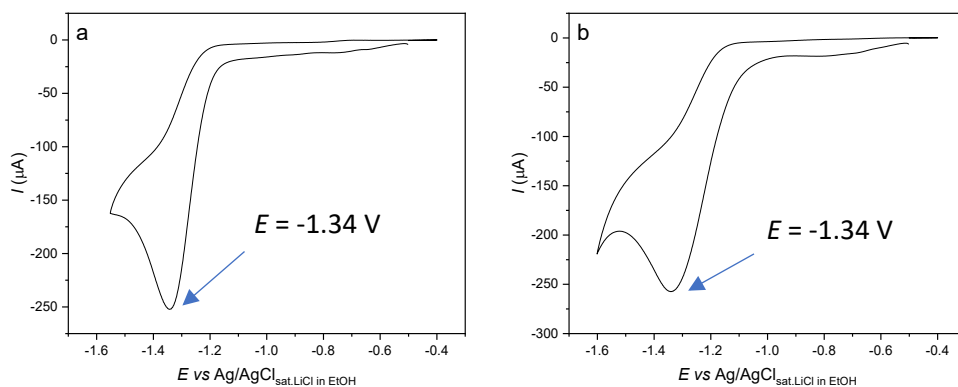


Figure S.3 Cyclic voltammograms of (4-bromophenyl)(phenyl)methanone 5×10^{-3} M, WE: Glassy Carbon (diameter, 3mm), CE: Pt wire, RE: Ag/AgCl sat. LiCl in EtOH as reference electrode, scan rate 100 mV/s, a) supporting electrolyte: Bu_4NBF_4 0.15 M in DLG/EtOH (1:1), b) supporting electrolyte: LiClO_4 0.15 M in DLG/EtOH (1:2).

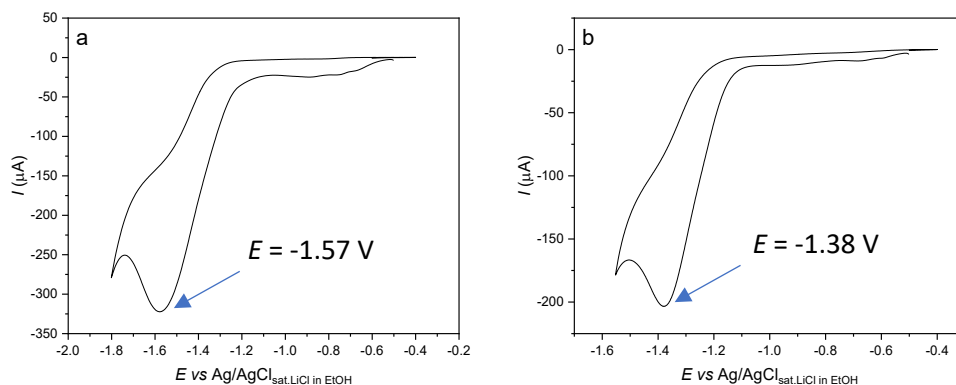


Figure S.4 Cyclic voltammograms of 2-Methylbenzoilbenzoate 5×10^{-3} M, WE: Glassy Carbon (diameter, 3mm), CE: Pt wire, RE: Ag/AgCl sat. LiCl in EtOH as reference electrode, scan rate 100 mV/s, a) supporting electrolyte: Bu_4NBF_4 0.15 M in DGL/EtOH (1:1), b) supporting electrolyte: LiClO_4 0.15 M in DGL/EtOH (1:2).

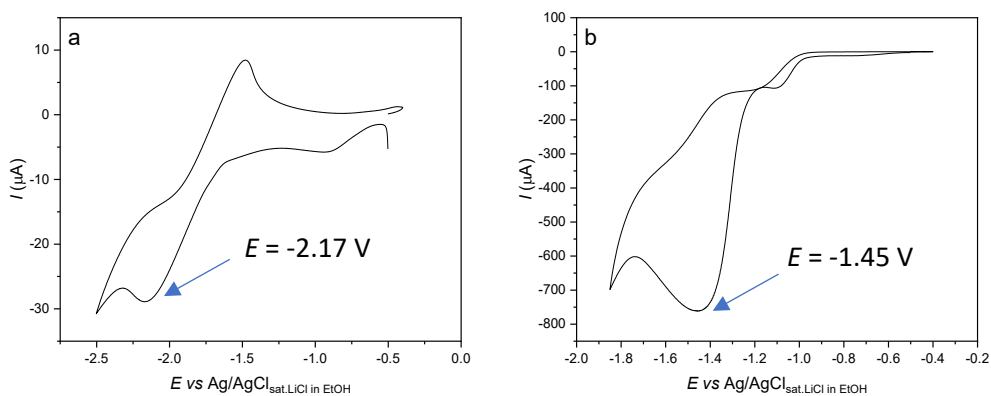


Figure S.5 a) Cyclic voltammogram of benzoilferrocene 5×10^{-3} M, supporting electrolyte: Bu_4NBF_4 0.15 M in 2-MeTHF, b) supporting electrolyte: LiClO_4 0.15 M in DLG/EtOH (1:2) WE: Glassy Carbon (diameter, 3mm), CE: Pt wire, RE: Ag/AgCl sat. LiCl in EtOH as reference electrode, scan rate 100 mV/s.

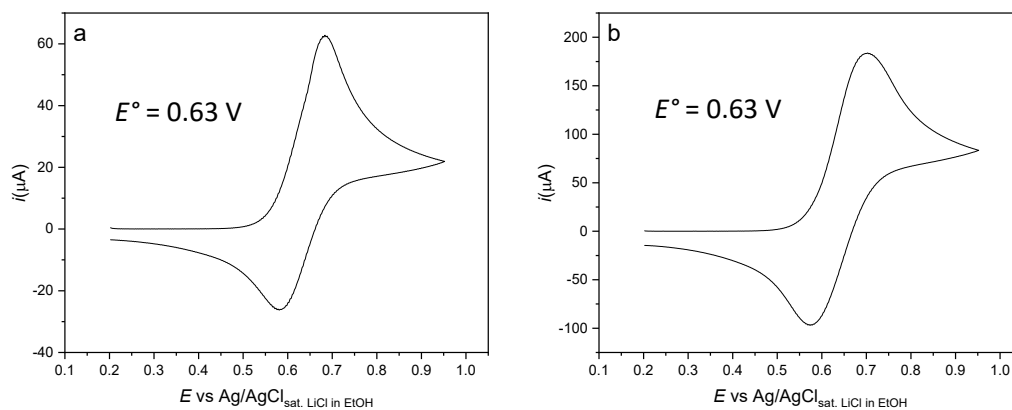


Figure S.6 Cyclic voltammograms of Ferrocene 5×10^{-3} M, WE: Glassy Carbon (diameter, 3mm), CE: Pt wire, RE: Ag/AgCl sat. LiCl in EtOH as reference electrode, scan rate 100 mV/s, a) supporting electrolyte: Bu_4NBF_4 0.15 M in DLG/EtOH (1:1), b) supporting electrolyte: LiClO_4 0.15 M in DLG/EtOH (1:2).