

quinones (benzene compounds)

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Amphoteric Redox Nature of p-Benzoquinones with Donor- and Acceptor- Substituents.

— The p-benzoquinones (IV), (VII), (VIII), and (XI) are synthesized starting with fluoranil (I) or chloranil (V). The redox potentials of the compounds prepared as well as of 12 other substituted p-benzoquinones are determined by cyclic voltammetry. Correlation coefficients for redox potentials and carbonyl stretching frequencies against Hammett substituent constants are discussed. — (KITAGAWA, T.; TOYODA, J.; NAKASUJI, K.; YAMAMOTO, H.; MURATA, I.; Chem. Lett. (1990) 6, 897-900; Inst. Mol. Sci., Myodaiji, Okazaki 444, Japan; EN)

