ENVIRONMENTAL ASPECTS OF PURIFICATION OF PHENOLIC WASTE WATERS BY MEDIATED ELECTROOXIDATION WITH Ce\textsuperscript{4+}/Ce\textsuperscript{3+} AND MONITORED BY HPLC

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Abstract: The purification of industrial phenolic waste waters by mediated electrooxidation with Ce\textsuperscript{4+}/Ce\textsuperscript{3+} on a platinum anode in H\textsubscript{2}SO\textsubscript{4} solution was performed. The conversion degree of phenol and its toxic oxidation derivatives, which are further oxidized to non-toxic compounds, was monitored by high performance liquid chromatography (HPLC).

Keywords: purification, phenolic waste waters, mediated electrooxidation, Ce\textsuperscript{4+}/Ce\textsuperscript{3+}, high performance liquid chromatography

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