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SELECTIVE RECOVERY OF PHENOLIC DERIVATIVES THROUGH THE TECHNIQUE OF LIQUID MEMBRANES

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Abstract

In the present paper we studied the competitive transport of p-nitrophenol (pNP) and 2,4-dinitrophenol (2,4-dNP) from aqueous media using the technique of liquid membranes. This technique is very efficient, economic and selective when compared to other removal techniques of phenolic derivatives. The paper presents the influence of the sodium carbonate concentration from the stripping phase, the influence of the concentration ratio $[2,4-dNP]/[pNP]$ upon the selectivity of the transport process and some kinetic aspects of the transport of 2,4-dNP in the presence of pNP through bulk liquid membranes.

Key words: 2,4-dinitrophenol, kinetics, membrane separation, p-nitrophenol

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