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APPLICATIONS OF ADSORPTION ONTO DOWEX-MARATHON ANIONIC RESIN: A REVIEW

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Abstract

Dowex-Marathon MSA is a commercial macroporous anionic exchange resin consisting of a styrene/divinylbenzene matrix and quaternary amine functional group. This review presents the main practical applications of a resin in different fields, both for resin in basic form, as supplied by the manufacturer (most of the data presented), and for modified resin. Experimental results regarding water treatment, recovery of some ions of interest, purification of some chemical compounds, isotopic enrichment using this adsorbent are presented. The paper aims to be helpful for those who want an overview of the practical use of a commercial resin that is available at a lower price than other prepared adsorbent materials, is versatile, and provides good adsorption results.

Key words: adsorption, anion exchange resin, Dowex-Marathon MSA, environment, health

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