

## عنوان مقاله:

Effects of membrane characteristics on selective transport of bismuth ion through supported liquid membrane

## محل انتشار:

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## خلاصه مقاله:

In the present work, a new supported liquid membrane (SLM) system for the selective transport of Bi ions was prepared. The SLM was a thin porous polyvinylidene fluoride (PVDF) membrane impregnated with diisooctyl dithiophosphinic acid (Cyanex 301) as mobile carrier in 4-chloroacetophenone as organic solvent. Cyanex 301 acts as a highly selective carrier for the uphill transport of Bi ions through the SLM. The transport of Bi ions reached to 70%. In the presence of P2O7<sup>-2</sup> ion as suitable masking agent in the feed solution, the interfering effects of other cations were completely eliminated

## کلمات کلیدی:

supported liquid membranes, bismuth, ion transport

## لینک ثابت مقاله در پایگاه سیویلیکا:

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