Synergistic Extraction of Silver with Mixtures of LIX63 and Organo-phosphorous Extractants

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The extraction of silver from nitric acid solution was investigated using organophosphorous extractants (D2EHPA, PC88A, TBP and TOPO) and the mixture of them with LIX63. TBP and TOPO were found to have ability to extract silver at low acid concentration. While the extraction percentage of silver with D2EHPA and PC88A were low in all the acid concentration range. The synergistic coefficient (S.C.) of the mixed extractant systems was utilized to study the extraction behavior of silver with mixture extractants. Mixing D2EHPA, PC88A, TBP and TOPO with LIX63 favored the extraction of silver with LIX63.

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