Phosphorus, Sulfur and Silicon and the Related Elements 2016 vol.191 N11-12, pages 1682-1683

Study of the membrane-extraction properties of O-hexy--(N,N-di-2-ethylhexyl)methylphosphonic acid

Garipova A., Garifzyanov A., Cherkasov R.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2016 Taylor & Francis Group, LLC.It was found that the O-hexyl-(N, N-di-2-ethylhexyl)methylphosphonic acid is a good membrane carrier for lithium ion. Thus, the O-hexyl-(N, N-di-2-ethylhexyl) methylphosphonic acid exhibits a sufficiently high ability to transfer lithium and sodium ions through the liquid membrane, and also exhibits high selectivity for lithium ions.

http://dx.doi.org/10.1080/10426507.2016.1227823

Keywords

Alkaline metals, membrane extraction, supported liquid membrane