

## **Ion flotation of the Ce(III) and Sm(III) from nitrate-chloride solutions**

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### **Abstract**

Ion flotation of cerium (3+) and samarium (3+) from nitrate solutions with the use of sodium dodecylsulphate as a collector with addition of sodium chloride has been studied. The ratio of distribution coefficients and separation coefficient as function of the pH aqueous solutions with different concentrations of chloride-ions has been analyzed. The separation coefficient ( $K_{Ce/Sm}$ ) increased from 1.3 till 4.75 when chloride-ion was added.