

EXTRACTION PRECONCENTRATION AND DETERMINATION OF COBALT (II) VIA CLOUD POINT METHOD

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ABSTRACT

Extracted Co^{2+} ions according to CPE methodology as ion pair complex by Junnas green (JG) from acidic aqueous solution of HCl. The method appears 0.5M HCl was the suitable for extracted $50 \mu\text{g Co}^{2+}$ in presence. 1×10^{-4} M JG and 0.5 ml 1% Triton X-100 with heating on electrostatic water bath at 85°C for 15 minutes. As well as the study involved thermodynamic study electrolyte effect and interferences in addition to spectrophotometric determination of Co^{2+} .

KEYWORDS: Cobalt, Cloud Point Extraction, Liquid Ion Exchange