# Radiochemical separation of Pd(II) using 2-mercaptobenzimidazole into chloroform

by Rana, Anjana; Pandey, Santosh S.; Bagla, Hemlata (Radio and Nuclear Chemistry Lab., K.C. College, Mumbai (India))

from Nuclear and Radiochemistry Symposium : Proceedings of BRNS-DAE National Symposium on Nuclear and Radiochemistry

[en] A rapid and simple method has been developed for the solvent extraction of Pd(II) with 2-mercaptobenzimidazole into chloroform. The effect of various parameters such as pH, time of equilibration, solvents, salts and separation factors for cations has been evaluated. The stoichiometry of metal to reagent was found to be 1:2, 103Pd was used as a tracer. (author)

| | |
|---|---|
| Subject | INORGANIC, ORGANIC, PHYSICAL AND ANALYTICAL CHEMISTRY (S37) |
| Source/Report | Tomar, B.S.; Saxena, M.K.; Manchanda, V.K.; Manohar, S.B. (Radiochemistry Div., Bhabha Atomic Research Centre, Mumbai (India)) (eds.); Board of Research in Nuclear Sciences, Department of Atomic Energy, Mumbai (India); 613 p; 2003; p. 507-508; NUCAR 2003: 6. national symposium on nuclear and radiochemistry; Mumbai (India); 10-13 Feb 2003; 3 refs., 1 fig., 1 tab. |
| Record Type | Book |
| Country/Org. | India |
| DEC | BETA DECAY RADIOISOTOPES; CHEMICAL ANALYSIS; CHLORINATED ALIPHATIC HYDROCARBONS; DAYS LIVING RADIOISOTOPES; ELECTRON CAPTURE RADIOISOTOPES; EVEN-ODD NUCLEI; EXTRACTION; HALOGENATED ALIPHATIC HYDROCARBONS; INTERMEDIATE MASS NUCLEI; ISOTOPES; NUCLEI; ORGANIC CHLORINE COMPOUNDS; ORGANIC COMPOUNDS; ORGANIC HALOGEN COMPOUNDS; PALLADIUM ISOTOPES; QUANTITATIVE CHEMICAL ANALYSIS; RADIOISOTOPES; SEPARATION PROCESSES |
| DEI | CHLOROFORM; PALLADIUM 103; PH VALUE; RADIOCHEMICAL ANALYSIS; SOLVENT EXTRACTION; STOICHIOMETRY |
| Language | English |
| Ref. Number | 34050346 |
| Rel. Record | 34050126 |
| Publ. Year | 2003 |
| INIS Volume | 34 |
| INIS Issue | 29 |