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for X-Ray Fluorescence Analysis*

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Abstract

Enrichment procedures for small quantities of metals by organometallic and other coprecipitation techniques for X-ray fluorescence analysis were studied. In order to obtain a higher X-ray intensity and good reproducibility in the measurements, five requirements were considered for the precipitants and for the precipitate. Favourable organic precipitants are mainly alizarine blue, phenyl fluorone, and cupferron. Good inorganic precipitates were fluorides and reduced metals. Other precipitation procedures can be applied to some metal elements, if the precipitation reaction is selective and a higher X-ray intensity is obtained.

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