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Spectrophotometric Determination of Cobalt, Nickel Palladium, Copper, Ruthenium and Molybdenum Using Sodium Isoamylxanthate in Presence of Surfactants

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Abstract: A direct method has been developed for the spectrophotometric determination of microamounts of Co(II), Ni(II), Cu(II), Pd(II), Ru(III) and Mo(VI) using sodium isoamylxanthate as a reagent in the presence of surfactant as solubilising agent. The method has been applied to the determination of these metal ions in various alloys and in environmental samples (fly ash).

Key Words: Sodium isoamylxanthate, surfactants, metal ions, environmental samples.

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