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Analytical Application of 3-hydroxy-3-propyl-1-(4-carbamimidoylsulfamoyl)phenyltriazene (CSPT) in the Spectrophotometric Determination of Palladium(II)

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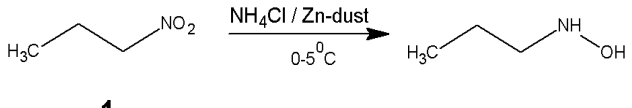
ABSTRACT

The spectrophotometric behavior of complex of Pd(II) with 3-hydroxy-3-propyl-1-(4-carbamimidoylsulfamoyl)phenyltriazenehas been studies in ppm level. The reagent forms light violet coloured complex with Pd(II) in alcoholic medium at pH range 1.8-2.2. The mean value of molar absorbtivity and sandell's sensitivity was calculated and was found to be 8372 Lmol^{-1} and 12.71 mg.cm^{-1}for the complex. It was observed that 3-hydroxy-3-propyl-1-(4-carbamimidoylsulfamoyl) phenyltriazene forms 1:2 complex with Pd(II).

Graphical Abstract



1 **2**

Reduction of Nitro Compound

Keywords: 3-hydroxy-3-propyl-1-(4-carbamimidoylsulfamoyl)phenyltriazene, spectrophotometric determination of Pd(II), PASS, CADD.