

Synthesis and spectral investigations of some new mercury (II), copper (I) and silver (I) complexes containing ortho-tellurated p-bromoacetanilide

Abstract

Bis (2-acetamido-5-bromophenyl) ditelluride (1), bis (2-acetamido-5-bromophenyl) telluride (2) and 2-acetamido-5-bromopheny (4-ethoxyphenyl) telluride (3) were reacted with HgCl₂, CuCl and AgNO₃ to form complexes of the type MX_n.L (L= 1, 2 or 3; M= Hg (II), Cu (I), Ag (I); X= Cl, NO₃; n= 1 or 2). Mercury complexes were found to be ionic species in DMSO solution. IR and ¹H NMR data suggested that the ligands in these complexes coordinate through the tellurium atom.