



Polyhedron

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Synthesis and characterization of 2,4-disubstituted-5-imino- Δ^2 -1,3,4-telluradiazolines and 1,4-dihydro-2-imino-3-telluraquinolines

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Abstract

2,4-Disubstituted-5-imino- Δ^2 -1,3,4-telluradiazolines were isolated together with α -tellurocyanatobenzaldehyde arylhydrazones when potassium tellurocyanate was reacted with hydrazidoyl bromides in DMSO solution. *N*-Acetyl derivatives were prepared by reaction of 5-imino- δ^2 -1,3,4-telluradiazolines with acetic anhydride. Reaction of 2-amino-benzyl iodide with KTeCN afforded the novel heterocyclic tellurium compound, 1,4-dihydro-2-imino-3-telluraquinoline, which, on treatment with acetic anhydride, gave the acetyl derivative. The acetyl derivative was hydrolysed with HCl/H₂O to afford 1-*N*-acetyl-4-hydro-3-telluraquinolin-2-one.



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Keywords

potassium tellurocyanate; telluradiazolines; telluraquinolines; hydrazidoyl halides; 2-aminobenzyl tellurocyanate; tellurides

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