



Synthesis and characterization of various Vanadium metal complexes

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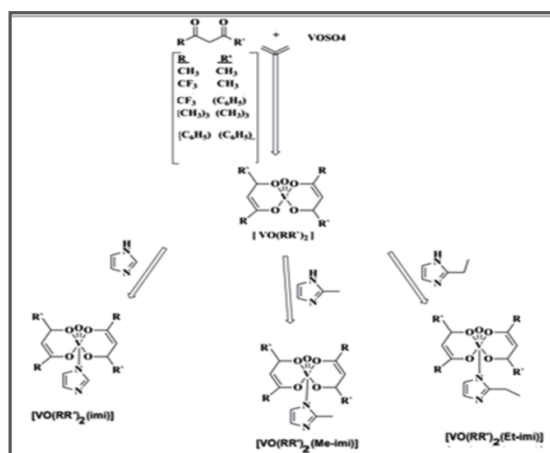
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ABSTRACT

Various Vanadium binary and ternary complexes using substituted acetyl acetones were synthesized and characterized by analytical techniques. The substituted acetyl acetones used in this study are 1,3-diphenyl-1,3-propanedione (DPhAA), 1,1,1-trifluoro-2,4-pentanedione (TFAA), 4,4,4-trifluoro-1-phenyl-1,3-butanedione (TFPhAA), 2,2,6,6-tetramethyl-3,5-heptanedione (TMH) and the other auxiliary ligands used are imidazole (imi), 2-Methyl-imidazole (me-imi), 2-Ethyl-imidazole (et-imi). The binary complexes and ternary complexes showed the square pyramidal and octahedral geometries respectively. All these metal complexes are found to be neutral. Diabetes activities of these complexes would be evaluated.

Graphical Abstract



Keywords: DPhAA, TFAA, TMH, TFPhAA, imi, me imi, et imi.