



## Synthesis and Characterization of Novel Oxovanadium Metal Complexes

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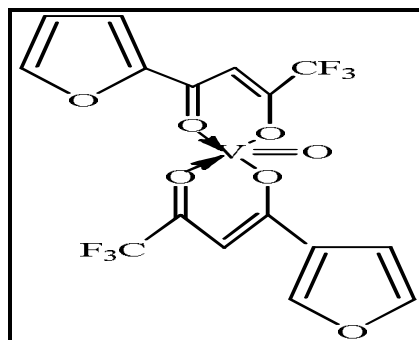
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### ABSTRACT

Few novel Vanadium binary metal complexes are prepared using substituted acetyl acetones viz., 4,4,4-trifloro-(2-furyl)-1,3-butadione (TFFAA), 3-methyl-2,4-pentadione (MEAA), 3-ethyl-2,4-pentadione (EAA), 3-n-butyl-2,4-pentadione (BAA). These complexes have been characterized using various analytical techniques. These binary complexes showed the square pyramidal geometry. All these metal complexes are found to be neutral. Diabetes activities of these complexes would be evaluated, Since Vanadium metal complexes are known to have anti diabetic activity in type-II diabetic mellitus patients.

### Graphical Abstract



**Keywords:** TFFAA, MEAA, EAA, BAA, Vanadium.