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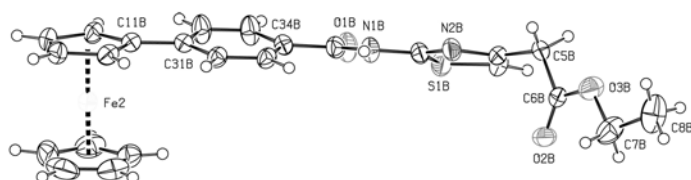
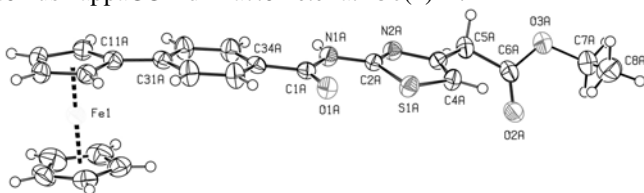
Ferrocenylbenzoyl thienyl/thiazolyl Esters. J.F. Gallagher, S.A. Alley,* V.M. Hooper, P.T.M. Kenny and A.J. Lough, School of Chemical Sciences, Dublin City Univ., Dublin 9, IRELAND, Dept. of Chemistry, Univ. of Toronto, Toronto, CANADA. M5S 3H6.

Organometallic, thienyl, thiazolyl.

Organometallic thienyl/thiazolyl esters incorporating the ferrocenyl moiety are currently being studied by our group. We have reported on ferrocenoyl and ferrocenylbenzoyl amino acid and dipeptide esters.^{1,2} The synthesis, characterisation and crystal structures of several complexes (depicted below) will be presented including:

(1) $C_{23}H_{19}FeNO_3SFe$, monoclinic, $P2_1/n$, $a = 10.1428(3)$, $b = 8.0965(2)$, $c = 23.0557(7)$ Å, $\beta = 95.4912(14)^\circ$, $V = 1884.67(9)$ Å³, $Z = 4$, $D_x = 1.569$ Mg.m⁻³, $R = 0.036$ for 3441 refl $> 2\sigma(I)$.

(4) $C_{23}H_{19}FeNO_3SFe$, triclinic, $P\bar{1}$, $a = 12.7466(4)$, $b = 12.8752(8)$, $c = 13.5661(7)$ Å, $\alpha = 91.811(3)^\circ$, $\beta = 106.096(3)^\circ$, $\gamma = 92.735(3)^\circ$, $V = 897.60(15)$ Å³, $Z = 4$, $D_x = 1.476$ Mg.m⁻³, $R = 0.05$ for 5617 refl $> 2\sigma(I)$. Data were collected on a Nonius kappaCCD diffractometer at 150(1) K.



[1]. D. Savage, J.F. Gallagher, Y. Ida and P.T.M. Kenny, "Semi-rigid N-para-ferrocenyl(benzoyl)amino-acid esters for biomaterials: synthesis and characterisation of $Fc-C_6H_4CONHCH(R)CO_2Me$ where $Fc = (C_5H_5)Fe(C_5H_4)$ and $R = H, CH_3, CH_2CH(CH_3)_2, CH_2C_6H_5$ and the X-ray crystal structures of $Fc-C_6H_4CO_2Me$ and the L-alanine derivative $Fc-C_6H_4CONHCH(CH_3)CO_2Me$ ", *Inorg. Chem. Commun.*, (2002), 5, 1034-1040.