

## Research Publications

1. Steric vs. electronic anomaly observed from iodomethane oxidative addition to tertiary phosphine modified rhodium(I) acetylacetonato complexes following progressive phenyl replacement by cyclohexyl [PR3 = PPh3, PPh2Cy, PPhCy2 and PCy3], A. Brink, A. Roodt, G. Steyl, H.G. Visser, Dalton Trans. (2010) 39, 5572 - 5578, DOI: 10.1039/b922083f.
2. Effect of fracture zone on DNAPL transport and dispersion: a numerical approach, I. Dennis, J. Pretorius, G. Steyl, Environ. Earth Sci., (2010) DOI: 10.1007/s12665-010-0468-8.
3. Review of coastal-area aquifers in Africa, G. Steyl, I. Dennis, Hydrogeology Journal (2010) 18: 217–225.
4. 4-(2-Methylanilino)pent-3-en-2-one, G.J.S. Venter, G. Steyl, A. Roodt (2010) Acta Cryst. E66, o1593-o1594.
5. [N,N-Bis(4-chlorophenyl)pentane-2,4-diiminato]dicarbonylrhodium(I), T.N. Hill, G. Steyl, Acta Cryst. (2010). E66, m205.
6. Methods To Assess The Impacts Of Tailings Dams On The Groundwater System In South Africa, I. Dennis, J. Pretorius, P. van Deventer, G. Steyl, Journal of Mining and Metallurgy, 44 A (1) (2009) 59 - 66.
7. (3,5,7-Tribromotropolonato-O,O)tris- (triphenylphosphine-P)silver(I), G. Steyl, T. N. Hill, Acta Cryst. (2009). E65, m191.
8. Dibromidobis(triphenylarsine)palladium(II). L. Kirsten, G. Steyl, Acta Cryst. (2009). E65, m218.
9. Trans-Dibromidobis tris(4-chlorophenyl)phosphine palladium(II). L. Kirsten, G. Steyl Acta Cryst. (2009). E65, m1565.
10. trans-Dibromidobis diphenyl(p-tolyl)phosphine palladium(II). L. Kirsten, G. Steyl, A. Roodt, Acta Cryst. (2009). E65, m1564.
11. trans-Dibromidobis(tri-p-tolylarsine)palladium(II). L. Kirsten, G. Steyl, A. Roodt, Acta Cryst. (2009). E65, m1449.
12. Bis tris(4-fluorophenyl)phosphine-kappa-P-(tropolonato-kappa-O-2,O)copper(I). G. Steyl, Acta Cryst. (2009). E65, m448.
13. Nitratotris(triphenylphosphine)copper(I) methanol solvate. G. Steyl, Acta Cryst. (2009). E65, m272.
14. (3,5,7-Tribromotropolonato-kappa-O-2,O)tris(triphenylphosphine-kappa-P)silver(I). G. Steyl, T. N. Hill, Acta Cryst. (2009). E65, m191.
15. Bis(triphenylphosphine-kappa P)(tropolonato-kappa O-2,O )silver(I) dichloromethane solvate. Steyl, G. and T. N. Hill, Acta Cryst. (2009). E65, m233.
16. Carbonyl 4-(2,3-dimethylphenylamino)pent-3-en-2-onato-kappa-N-2,O (triphenylphosphine-kappa-P)rhodium(I). G.J.S. Venter, G. Steyl, A. Roodt, Acta Cryst. (2009). E65, m1321.
17. Carbonyl 4-(2,6-dimethylphenylamino)pent-3-en-2-onato-kappa-N-2,O (triphenylphosphine-kappa-P)rhodium(I) acetone hemisolvate. G.J.S. Venter, G. Steyl, A. Roodt, Acta Cryst. (2009). E65, m1606.
18. Tetrakis(1,1,1-trifluoroacetylacetonato-O,O) zirconium(IV) toluene solvate, M. Steyn, A. Roodt, G. Steyl, Acta Cryst. (2008). E64, m827.
19. Dicarbonyl[2-hydroxy-3,5,7-tris- (morpholinomethyl)cyclohepta-2,4,6-trienonato-O,O]rhodium(I), T. N. Hill, G. Steyl, Acta Cryst. (2008). E64, m827.
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21. N.J. DeYonker, K.A. Peterson, G. Steyl, A.K. Wilson, T.R. Cundari, J. Phys. Chem. A (2007) 111(44); 11269-11277.
22. G. Steyl, Acta Cryst. (2007). E63, m2968-m2969.
23. G. Steyl, A. Roodt, (TROPOLONE AS NEUTRAL COMPOUND AND LIGAND IN PALLADIUM COMPLEXES) Models, Mysteries, and Magic of Molecules (2007) Boeyens, Jan C.A.; Ogilvie, John F. (Eds.) ISBN: 978-1-4020-5940-7 in press.
24. trans-Carbonylchlorobis[(2-naphthoxy) diphenylphosphine]rhodium(I), L. Kirsten, E. Steyl, J.H. van der Westhuizen, G. Steyl, Acta Cryst. (2007). E63, m20-m22.
25. Carbonyl(3,7-dichlorotropolonato) (triphenylphosphine)rhodium(I), G. Steyl, Acta Cryst. (2007). E63, m23-m25.
26. Tris(1-naphthyl) phosphate, L. Kirsten, G. Steyl, A. Roodt, Acta Cryst. (2007). E63, o2828-o2830.
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28. Tris[diphenyl(4-tolyl)phosphane]-di-iodido-dicopper(I), G. Steyl, Acta Cryst. (2007). E63, m2522.
29. Chlorobis[diphenyl(p-tolyl)phosphine] copper(I), G. Steyl, Acta Cryst. (2007). E62, m3277-m3278.
30. Tetraethylammonium bromidotricarbonyl[3,5,7-tribromotropolonato-O,O']rhenate(I), M. Schutte, H.G. Visser, G. Steyl, Acta Cryst. (2007). E63, m3195-m3196.
31. (Diphenylmethoxyphosphane-P)(diphenylphosphanito-P)(3,5,7-tribromotropolonato-O,O')palladium(II) methanol solvate, G. Steyl, Acta Cryst. (2007). E63, m2613-m2614.
32. 2-(4-Flouroanilino)tropone, G. Steyl, Acta Cryst. (2007). E63, o4353-o4353.
33. Chloridobis[2-(4-fluoroanilino)troponato-N,O](triphenylphosphine-P)rhodium(III), G. Steyl, Acta Cryst. (2007). E63, m2968-m2969.
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