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CH_4ClP $ClCH_2PH_2$	**Chloromethylphosphine** Structure by ED, MW and ab initio calculations *R. Noble-Eddy, S. L. Masters (née Hinchley), D. W. H. Rankin, D. A. Wann, H. E. Robertson, B. Khater and J.-C. Guillemin* Inorg. Chem. **48** (2009) 8603-8612
$C_2H_3AsCl_2$ $CH_2CHAsCl_2$	**Vinyldichloroarsine** Structure by ED and computational methods *R. Noble-Eddy, S. L. Masters, D. W. H. Rankin, H. E. Robertson and J.-C. Guillemin* J. Mol. Struct., in press.
C_2H_3P $HC{\equiv}CPH_2$	**Ethynylphosphine** Structure by ED, MW and ab initio calculations *R. Noble-Eddy, S. L. Masters (née Hinchley), D. W. H. Rankin, D. A. Wann, H. E. Robertson, B. Khater and J.-C. Guillemin* Inorg. Chem. **48** (2009) 8603-8612
C_2H_5As CH_2CHAsH_2	**Vinylarsine** Structure by ED and computational methods *R. Noble-Eddy, S. L. Masters, D. W. H. Rankin, H. E. Robertson and J.-C. Guillemin* J. Mol. Struct., in press.
C_2H_5P $CH_2{=}CHPH_2$	**Vinyl phosphine** Structure by ED, MW and ab initio calculations *R. Noble-Eddy, S. L. Masters (née Hinchley), D. W. H. Rankin, D. A. Wann, H. E. Robertson, B. Khater and J.-C. Guillemin* Inorg. Chem. **48** (2009) 8603-8612
$C_2H_6Br_4Si_2$ $Br_3SiSiBrMe_2$	**1,1,1,2-Tetrabromo-2,2-dimethyldisilane** Structure by ED and ab initio calculations *S. L. Masters, H. E. Robertson, K. Hassler et al.* Manuscript in preparation.
C_3H_5P $HC{\equiv}CCH_2PH_2$	**Propargyl phosphine** Structure by ED, MW and ab initio calculations *R. Noble-Eddy, S. L. Masters (née Hinchley), D. W. H. Rankin, D. A. Wann, H. E. Robertson, B. Khater and J.-C. Guillemin* Inorg. Chem. **48** (2009) 8603-8612
C_3H_5P $CH_2{=}C{=}CHPH_2$	**Allenyl phosphine** Structure by ED and ab initio calculations *R. Noble-Eddy, S. L. Masters (née Hinchley), D. W. H. Rankin, D. A. Wann, H. E. Robertson, B. Khater and J.-C. Guillemin* Inorg. Chem. **48** (2009) 8603-8612
$C_3H_6Cl_3N$ $N(CH_2Cl)_3$	**Tris(chloromethyl)amine** Structure by ED and computational methods *N. W. Mitzel, J. T. Schirlin, S. L. Masters, D. W. H. Rankin et al.* Manuscript in preparation.
C_3H_7P	**Allylphosphine** Structure by ED and ab initio calculations

CH_2=$CHCH_2PH_2$	*R. Noble-Eddy, S. L. Masters (née Hinchley), D. W. H. Rankin, D. A. Wann, H. E. Robertson, B. Khater and J.-C. Guillemin* Inorg. Chem. **48** (2009) 8603-8612
$C_3H_9Br_3Si_2$ $Br_3SiSiMe_3$	**1,1,1-Trimethyl-2,2,2-tribromodisilane** Structure by ED and ab initio calculations *S. L. Masters, H. E. Robertson, M. Hölbling, K. Hassler, C. Mitofan and W.-W. du Mont* Manuscript in preparation.
$C_3H_9Cl_3Si_2$ $Me_3SiSiCl_3$	**1,1,1-Trichloro-2,2,2-trimethyldisilane** Structure by ED and ab initio calculations *S. L. Masters, H. E. Robertson, M. Hölbling, K. Hassler, C. Mitofan and W.-W. du Mont* Manuscript in preparation.
$C_3H_9F_3Si_2$ $F_3SiSiMe_3$	**1,1,1-Trifluoro-2,2,2-trimethyldisilane** Structure by ED and ab initio calculations *S. L. Masters, H. E. Robertson, M. Hölbling, K. Hassler, C. Mitofan and W.-W. du Mont* Manuscript in preparation.
$C_3H_{10}Ge$ Me_3GeH	**Trimethylgermane** Vibrational spectra and structure by ED and computational methods *M. L. Roldán, S. A. Brandán, S. L. Masters (née Hinchley), D. A. Wann, H. E. Robertson, D. W. H. Rankin and A. Ben Altabef* J. Phys. Chem. A **113** (2009) 5195-5204
$C_3H_{12}Si_2$ $H_3SiSiMe_3$	**Trimethylsilylsilane** Structure by ED and ab initio calculations *S. L. Masters, H. E. Robertson, M. Hölbling, K. Hassler, C. Mitofan and W.-W. du Mont* Manuscript in preparation.
C_5H_9P ButCP	**tert-Butylphosphaethyne** Structure by ED and ab initio calculations *C. Jones, H. E. Robertson, S. L. Masters et al.* Manuscript in preparation.
C_6H_4BrF C_6H_4BrF	**1-Bromo-4-fluorobenzene** Structure by ED, liquid crystal NMR spectroscopy, ab initio calculations and X-ray diffraction *S. L. Masters, I. D. Mackie, D. W. H. Rankin, H. E. Robertson and S. Parsons* Manuscript complete.
C_6H_4ClF C_6H_4ClF	**1-Chloro-4-fluorobenzene** Structure by ED, liquid crystal NMR spectroscopy, ab initio calculations and X-ray diffraction *S. L. Masters, I. D. Mackie, D. W. H. Rankin, H. E. Robertson and S. Parsons* Manuscript complete.
C_6H_7P $C_6H_5PH_2$	**Phenyl phosphine** Structure by ED and ab initio calculations *R. Noble-Eddy, S. L. Masters (née Hinchley), D. W. H. Rankin, D. A. Wann, H. E. Robertson, B. Khater and J.-C. Guillemin* Inorg. Chem. **48** (2009) 8603-8612
$C_6H_8O_4$	**2,2-Dimethyl-1,3-dioxane-4,6-dione (Meldrum's acid)** Structure by ED and ab initio calculations *R. Noble-Eddy and S. L. Masters* Manuscript in preparation.
$C_6H_{12}F_6Si_2$	**1,2-Trifluoromethyl-1,1,2,2-tetramethyldisilane** Structure by ED, X-ray diffraction and ab initio calculations, interpretation of Raman spectra

$CF_3Me_2SiSiMe_2CF_3$	*S. L. Masters, D. A. Wann, H. E. Robertson, F. Lennox, D. W. H. Rankin, I. Arnason, K. Hassler et al.* Manuscript in preparation.
C_7F_{14} $C_6F_{11}CF_3$	**Perfluoromethylcyclohexane** Structure by ED and ab initio calculations *G. R. Kafka, S. L. Masters, D. W. H. Rankin et al.* Manuscript in preparation.
C_7H_9P $C_6H_5CH_2PH_2$	**Benzylphosphine** Structure by ED and ab initio calculations *R. Noble-Eddy, S. L. Masters (née Hinchley), D. W. H. Rankin, D. A. Wann, H. E. Robertson, B. Khater and J.-C. Guillemin* Inorg. Chem. **48** (2009) 8603-8612
$C_7H_{16}Cl_3PSi$ $(tBu)(iPr)PSiCl_3$	**(tert-Butyl)(iso-propyl)(trichlorosilyl)phosphine** Structure by ED and ab initio calculations *E. Seppälä, W.-W. du Mont, S. L. Masters, D. W. H. Rankin and H. E. Robertson* Manuscript in preparation.
$C_9H_{24}Br_4Si_4$ $C(SiMe_2Br)_4$	**Tetrakis(bromodimethylsilyl)methane** Structure by ED and computational methods *K. Batz, G. R. Kafka, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin* Manuscript in preparation.
$C_9H_{24}Cl_4Si_4$ $C(SiMe_2Cl)_4$	**Tetrakis(chlorodimethylsilyl)methane** Structure by ED and computational methods *K. Batz, G. R. Kafka, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin* Manuscript in preparation.
$C_9H_{24}F_4Si_4$ $C(SiMe_2F)_4$	**Tetrakis(fluorodimethylsilyl)methane** Structure by ED and computational methods *K. Batz, G. R. Kafka, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin* Manuscript in preparation.
$C_9H_{28}Si_4$ $C(SiMe_2H)_4$	**Tetrakis(dimethylsilyl)methane** Structure by ED and computational methods *K. Batz, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin* Manuscript in preparation.
$C_{10}H_{30}Si_4$ $(Me_3Si)_3CSiH_3$	**(Silyl)tris(trimethylsilyl)methane** Structure by ED and computational methods *S. L. Masters, D. W. H. Rankin, D. B. Cordes, K. Bätz, P. D. Lickiss, N. M. Boag, A. D. Redhouse and S. M. Whittaker* Manuscript submitted to Dalton Trans.
$C_{11}H_{30}Br_2Si_4$ $C(SiMe_3)_2(SiMe_2Br)_2$	**Bis(bromodimethylsilyl)bis(trimethylsilyl)methane** Structure by ED and computational methods *K. Batz, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin* Manuscript in preparation.
$C_{11}H_{30}Cl_2Si_4$ $(Me_3Si)_2C(SiClMe_2)_2$	**Bis(chlorodimethylsilyl)bis(trimethylsilyl)methane** Structure by ED and computational methods *K. Batz, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin* Manuscript in preparation.
$C_{11}H_{32}Si_4$ $C(SiMe_3)_2(SiMe_2H)_2$	**Bis(dimethylsilyl)bis(trimethylsilyl)methane** Structure by ED and computational methods *K. Batz, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin*

	Manuscript in preparation.
$C_{12}Fe_3O_{12}$ $Fe_3(CO)_{12}$	**Dodecacarbonyltriiron** Structure by ED and ab initio calculations *G. R. Kafka, S. L. Masters, D. W. H. Rankin et al.* Manuscript in preparation.
$C_{14}H_{14}O_2S$ $(C_6H_5CH_2)_2SO_2$	**Dibenzyl sulfone** Structure by ED and ab initio / DFT methods *R. Noble-Eddy and S. L. Masters* Manuscript in preparation.
$C_{18}H_{54}Si_8$ $(SiMe_3)_3SiSi(SiMe_3)_3$	**Hexakis(trimethylsilyl)disilane** Vibrational spectra and structure by ED and ab initio calculations *K. Hassler, S. L. Masters et al.* Manuscript in preparation.
$C_{48}H_{40}O_{12}Si_8$ $Si_8O_{12}(C_6H_5)_8$	**Octaphenylsilsesquioxane** Structure by ED and computational methods *A. V. Zakharov, S. L. Masters, D. A. Wann, S. A. Shlykov, G. V. Girichev, S. Arrowsmith, D. B. Cordes, P. D. Lickiss, and A. J. P. White* Submitted to Dalton Trans.
O_6Sb_4 Sb_4O_6	**Antimony(III) oxide** Structure by ED and computational methods using new nozzle *S. L. Masters, G. V. Girichev, S. A. Shlykov* Manuscript complete