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CH_4ClP $ClCH_2PH_2$	**Chloromethylphosphine** R. Noble-Eddy, S. L. Masters, B. Khater, J.-C. Guillemin et al. Structure by ED and *ab initio* calculations Manuscript in preparation.
CH_5P CH_3PH_2	**Methylphosphine** R. Noble-Eddy, S. L. Masters (née Hinchley), D. W. H. Rankin, D. A. Wann, B. Khater and J.-C. Guillemin Structure by ED, MW and *ab initio* calculations Dalton Trans. (2008), 5041-5047
CH_8BP $CH_3PH_2BH_3$	**Methylphosphine borane adduct** R. Noble-Eddy, S. L. Masters (née Hinchley), D. W. H. Rankin, D. A. Wann, B. Khater and J.-C. Guillemin Structure by ED, MW and *ab initio* calculations Dalton Trans. (2008), 5041-5047
C_2H_3P $HC{\equiv}CPH_2$	**Ethynylphosphine** R. Noble-Eddy, S. L. Masters, B. Khater, J.-C. Guillemin et al. Structure by ED and *ab initio* calculations Manuscript in preparation.
C_2H_5P $CH_2{=}CHPH_2$	**Vinylphosphine** R. Noble-Eddy, S. L. Masters, B. Khater, J.-C. Guillemin et al. Structure by ED, MW and *ab initio* calculations Manuscript in preparation.
$C_2H_6Br_4Si_2$ $Br_3SiSiBrMe_2$	**1,1,1,2-Tetrabromo-2,2-dimethyldisilane** S. L. Masters, H. E. Robertson, K. Hassler et al. Structure by ED and *ab initio* calculations Manuscript in preparation.

C_3H_5P CH_2=C=$CHPH_2$	**Allenylphosphine** R. Noble-Eddy, S. L. Masters, B. Khater, J.-C. Guillemin et al. Structure by ED and *ab initio* calculations Manuscript in preparation.
C_3H_5P HC≡CCH_2PH_2	**Propargylphosphine** R. Noble-Eddy, S. L. Masters, B. Khater, J.-C. Guillemin et al. Structure by ED and *ab initio* calculations Manuscript in preparation.
$C_3H_6Cl_3N$ $N(CH_2Cl)_3$	**Tris(chloromethyl)amine** N. W. Mitzel, J. T. Schirlin, S. L. Masters, D. W. H. Rankin et al. Structure by ED and computational methods Manuscript in preparation.
C_3H_7P CH_2=$CHCH_2PH_2$	**Allylphosphine** R. Noble-Eddy, S. L. Masters, B. Khater, J.-C. Guillemin et al. Structure by ED and *ab initio* calculations Manuscript in preparation.
$C_3H_9Br_3Si_2$ $Br_3SiSiMe_3$	**1,1,1-Trimethyl-2,2,2-tribromodisilane** S. L. Masters, H. E. Robertson, M. Hölbling, K. Hassler, C. Mitofan and W.-W. du Mont Structure by ED and *ab initio* calculations Manuscript in preparation.
$C_3H_9Cl_3Si_2$ $Me_3SiSiCl_3$	**1,1,1-Trichloro-2,2,2-trimethyldisilane** S. L. Masters, H. E. Robertson, M. Hölbling, K. Hassler, C. Mitofan and W.-W. du Mont Structure by ED and *ab initio* calculations Manuscript in preparation.
$C_3H_9F_3Si_2$ $F_3SiSiMe_3$	**1,1,1-Trifluoro-2,2,2-trimethyldisilane** S. L. Masters, H. E. Robertson, M. Hölbling, K. Hassler, C. Mitofan and W.-W. du Mont Structure by ED and *ab initio* calculations Manuscript in preparation.
$C_3H_{10}Ge$ Me_3GeH	**Trimethylgermane** M. L. Roldán, S. A. Brandán, S. L. Masters, D. A. Wann, H. E. Robertson, D. W. H. Rankin and A. Ben Altabef Vibrational spectra and structure by ED and computational methods

	Manuscript submitted to J.Phys.Chem.A
$C_3H_{12}Si_2$ $H_3SiSiMe_3$	**Tri-methyl-silylsilane** S. L. Masters, H. E. Robertson, M. Hölbling, K. Hassler, C. Mitofan and W.-W. du Mont Structure by ED and *ab initio* calculations Manuscript in preparation.
$C_4HCl_3N_2$ $C_4N_2Cl_3$	**2,4,6-Trichloropyrimidine** S. L. Masters, D. A. Wann and D. W. H. Rankin Structure by ED and computational methods Manuscript in preparation.
$C_4H_{10}N_4Si$ $(N_4CH)SiMe_3$	**1-Trimethylsilyltetrazole** D. A. Wann, I. Gronde, T. Foerster, S. A. Hayes, S. L. Masters, H. E. Robertson, N. W. Mitzel and D. W. H. Rankin Structure by ED, X-ray and computational methods Dalton Trans. (2008), 3817-3823
$C_4H_{12}Cl_2Ge_2$ $ClMe_2GeGeMe_2Cl$	**1,2-Dichloro-1,1,2,2-tetramethyldigermane** M. Hölbling, S. L. Masters (née Hinchley), M. Flock, J. Baumgartner, K. Hassler, H. E. Robertson and D. A. Wann Raman spectra and structure by ED, X-Ray and computational methods Inorg. Chem. **47** (2008), 3023-3033
$C_4H_{14}Ge_2$ $HMe_2GeGeMe_2H$	**1,1,2,2-Tetramethyldigermane** M. Hölbling, S. L. Masters (née Hinchley), M. Flock, J. Baumgartner, K. Hassler, H. E. Robertson and D. A. Wann Raman spectra and structure by ED, X-Ray and computational methods Inorg. Chem. **47** (2008), 3023-3033
C_5H_9P ButCP	**Tert-butylphosphaethyne** C. Jones, H. E. Robertson, S. L. Masters et al. Structure by ED and *ab initio* calculations .
$C_5H_{11}N_3Si$ $SiMe_3$-NNCNC	**1-(Trimethylsilyl)-1,2,4-triazole** D. A. Wann, I. Gronde, T. Foerster, S. A. Hayes, S. L. Masters, H. E. Robertson, N. W. Mitzel and D. W. H. Rankin Structure by ED and computational methods Dalton Trans. (2008), 3817-3823

C_6H_4BrF C_6H_4BrF	**1-Bromo-4-fluorobenzene** S. L. Masters, I. D. Mackie, D. W. H. Rankin, H. E. Robertson and S. Parsons , , Structure by ED, liquid crystal NMR spectroscopy, *ab initio* calculations and X-ray diffraction Manuscript complete.
C_6H_4ClF C_6H_4ClF	**1-Chloro-4-fluorobenzene** S. L. Masters, I. D. Mackie, D. W. H. Rankin, H. E. Robertson and S. Parsons Structure by ED, liquid crystal NMR spectroscopy, *ab initio* calculations and X-ray diffraction Manuscript complete.
C_6H_7P $C_6H_5PH_2$	**Phenylphosphine** R. Noble-Eddy, S. L. Masters, B. Khater, J.-C. Guillemin et al. Structure by ED and *ab initio* calculations Manuscript in preparation.
$C_6H_{12}F_6Si_2$ $CF_3Me_2SiSiMe_2CF_3$	**1,2-Trifluoromethyl-1,1,2,2-tetramethyldisilane** S. L. Masters, D. A. Wann, H. E. Robertson, F. Lennox, D. W. H. Rankin, I. Arnason, K. Hassler et al. Structure by ED and *ab initio* calculations, interpretation of Raman spectra Manuscript in preparation.
$C_6H_{18}Ge_2$ $Me_3GeGeMe_3$	**Hexamethyldigermane** M. Hölbling, S. L. Masters (née Hinchley), M. Flock, J. Baumgartner, K. Hassler, H. E. Robertson and D. A. Wann Raman spectra and structure by ED, X-Ray and computational methods Inorg. Chem. **47** (2008), 3023-3033
C_7F_{14} $C_6F_{11}CF_3$	**Perfluoromethylcyclohexane** G. R. Kafka, S. L. Masters, D. W. H. Rankin et al. Structure by ED and *ab initio* calculations Manuscript in preparation.
C_7H_9P $C_6H_5CH_2PH_2$	**Benzylphosphine** R. Noble-Eddy, S. L. Masters, B. Khater, J.-C. Guillemin et al. Structure by ED and *ab initio* calculations Manuscript in preparation.

$C_7H_{16}Cl_3PSi$ $(tBu)(iPr)PSiCl_3$	**(*tert*-Butyl)(*iso*-propyl)(trichlorosilyl)phosphine** E. Seppälä, W.-W. du Mont, S. L. Masters, D. W. H. Rankin and H. E. Robertson Structure by ED and *ab initio* calculations Manuscript in preparation.
$C_9H_{24}Br_4Si_4$ $C(SiMe_2Br)_4$	**Tetrakis(bromodimethylsilyl)methane** K. Batz, G. R. Kafka, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin Structure by ED and computational methods Manuscript in preparation.
$C_9H_{24}Cl_4Si_4$ $C(SiMe_2Cl)_4$	**Tetrakis(chlorodimethylsilyl)methane** K. Batz, G. R. Kafka, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin Structure by ED and computational methods Manuscript in preparation.
$C_9H_{24}F_4Si_4$ $C(SiMe_2F)_4$	**Tetrakis(fluorodimethylsilyl)methane** K. Batz, G. R. Kafka, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin Structure by ED and computational methods Manuscript in preparation.
$C_9H_{28}Si_4$ $C(SiMe_2H)_4$	**Tetrakis(dimethylsilyl)methane** K. Batz, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin Structure by ED and computational methods Manuscript in preparation.
$C_{10}H_{30}Si_4$ $(Me_3Si)_3CSiH_3$	**(Silyl)tris(trimethylsilyl)methane** K. Batz, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin Structure by ED and computational methods Manuscript in preparation.
$C_{11}H_{30}Br_2Si_4$ $C(SiMe_3)_2(SiMe_2Br)_2$	**Bis(bromodimethylsilyl)bis(trimethylsilyl)methane** K. Batz, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin Structure by ED and computational methods Manuscript in preparation.
$C_{11}H_{30}Cl_2Si_4$	**Bis(chlorodimethylsilyl)-bis(trimethylsilyl)methane**

$(Me_3Si)_2C(SiClMe_2)_2$	K. Batz, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin Structure by ED and computational methods Manuscript in preparation.
$C_{11}H_{32}Si_4$ $C(SiMe_3)_2(SiMe_2H)_2$	**Bis(dimethylsilyl)bis(trimethylsilyl)methane** K. Batz, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin Structure by ED and computational methods Manuscript in preparation.
$C_{12}Fe_3O_{12}$ $Fe_3(CO)_{12}$	**Dodecacarbonyltriiron** G. R. Kafka, S. L. Masters, D. W. H. Rankin et al. Structure by ED and *ab initio* calculations Manuscript in preparation.
$C_{16}H_{38}N_4W$ $W(NHBut)_2(NBut)_2$	**Bis(*tert*-butylamino)-bis(*tert*-butylimido)tungsten** H. Choujaa, S. D. Cosham, A. L. Johnson, G. R. Kafka, M. F. Mahon, S. L. Masters, K. C. Molloy, D. W. H. Rankin, H. E. Robertson and D. A. Wann Structure by ED and *ab initio* calculations Inorg. Chem. accepted subject to minor revisions
O_6Sb_4 Sb_4O_6	**Antimony oxide dimer** S. L. Masters, G. V. Girichev, S. A. Shlykov et al. Structure by ED and computational methods Manuscript in preparation.