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$As_2B_{10}H_{10}$ 1,2-$As_2B_{10}H_{10}$	**1,2-Diarsadodecaborane(10)** Structure by ED and *ab initio* calculations S. L. Masters, R. McLellan, A. Welch, D. McKay, H. E. Robertson and R. Noble-Eddy Manuscript in preparation.
$B_{10}H_{10}P_2$ 1,2-$P_2B_{10}H_{10}$	**1,2-Diphosphadodecaborane(10)** Structure by ED and *ab initio* calculations S. L. Masters, R. McLellan, A. Welch, D. McKay, H. E. Robertson and R. Noble-Eddy Manuscript in preparation.
$C_2H_3AsCl_2$ $CH_2CHAsCl_2$	**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. **978** (2010), 34
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. **978** (2010), 34
$C_2H_6Br_4Si_2$ $Br_3SiSiBrMe_2$	**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.
$C_3H_6Cl_3N$ $N(CH_2Cl)_3$	**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.
$C_3H_9Br_3Si_2$ $Br_3SiSiMe_3$	**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.
$C_3H_{12}Si_2$	**Trimethylsilylsilane** Structure by ED and *ab initio* calculations

$H_3SiSiMe_3$	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 D. A. Wann, S. L. Masters, H. E. Robertson, M. Green, R. J. Kilby, C. A. Russell, C. Jones and D. W. H. Rankin Manuscript submitted.
C_6H_4BrF C_6H_4BrF	**1-Bromo-4-fluorobenzene** Structure by ED, liquid crystal NMR spectroscopy and *ab initio* calculations S. L. Masters, I. D. Mackie, D. A. Wann, H. E. Robertson, D. W. H. Rankin and S. Parsons Struct. Chem., in press.
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. A. Wann, H. E. Robertson, D. W. H. Rankin and S. Parsons Struct. Chem., in press.
$C_6H_8O_4$	**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.
$C_6H_{12}F_6Si_2$ $CF_3Me_2SiSiMe_2CF_3$	**1,2-Trifluoromethyl-1,1,2,2-tetramethyldisilane** Structure by ED, X-ray diffraction and *ab initio* calculations, interpretation of Raman spectra 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. A. Wann, H. E. Robertson and D. W. H. Rankin J. Phys. Chem. A **114** (2010), 11022
$C_7H_{16}Cl_3PSi$ $(tBu)(iPr)PSiCl_3$	**(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. Bätz, G. R. Kafka, D. A. Wann, 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. Bätz, G. R. Kafka, D. A. Wann, 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. Bätz, G. R. Kafka, D. A. Wann, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin Manuscript in preparation.
$C_9H_{28}Si_4$	**Tetrakis(dimethylsilyl)methane** Structure by ED and computational methods

$C(SiMe_2H)_4$	K. Bätz, 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 Dalton Trans. **39** (2010), 9353
$C_{11}H_{30}Br_2Si_4$ $C(SiMe_3)_2(SiMe_2Br)_2$	**Bis(bromodimethylsilyl)bis(trimethylsilyl)methane** Structure by ED and computational methods K. Bätz, D. A. Wann, 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. Bätz, D. A. Wann, 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. Bätz, D. A. Wann, 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.
$C_{12}H_{30}Ga_2O_2$ $[Me_2GaOtBu]_2$	**Di-μ-tert-butoxymethyldigallium** Structure by ED and *ab initio* calculations D. A. Wann, C. E. Knapp, J. T. Schirlin, H. E. Robertson, S. L. Masters, C. J. Carmalt and D. W. H. Rankin 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 Dalton Trans. **39** (2010), 6960
O_6Sb_4 Sb_4O_6	**Antimony oxide dimer** Structure by ED and computational methods using new nozzle S. L. Masters, G. V. Girichev, S. A. Shlykov Manuscript complete.