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BrNa NaBr	**Sodium bromide** Structure by ED and *ab initio* calculations P. D. McCaffrey, D. A. Wann, R. J. Mawhorter and D. W. H. Rankin Manuscript in preparation.
Br_2Na_2 Na_2Br_2	**Sodium bromide dimer** Structure by ED and *ab initio* calculations P. D. McCaffrey, D. A. Wann, R. J. Mawhorter and D. W. H. Rankin Manuscript in preparation.
$C_2H_3AsCl_2$ $CH_2CHAsCl_2$	**Vinyl dichloroarsine** 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), 36
$C_2H_4O_4S_2$ O_2-cyclo-$S(CH_2)_2S$-O_2	**1,3-Dithietane-1,1,3,3-tetraoxide** Structure by ED and *ab initio* calculations D. A. Wann, H. E. Robertson, E. Block and D. W. H. Rankin Manuscript in preparation.
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), 36
$C_3H_6Cl_3N$ $N(CH_2Cl)_3$	**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.
$C_4H_5F_3OS$ $CF_3COSCH_2CH_3$	**Ethyl trifluorothioacetate** Structure and conformation by ED, *ab initio* calculations and vibrational spectroscopy M. E. Defonsi Lestard, M. E. Tuttolomondo, D. A. Wann, H. E. Robertson, D. W. H. Rankin and A. Ben Altabef J. Chem. Phys. **131** (2010), 214303
$C_4H_9F_3O_2Si$ $(CH_3)_3SiOC(O)CF_3$	**Trimethylsilyl trifluoroacetate** Vibrational spectra and structure by ED and *ab initio* calculations M. E. Defonsi Lestard, M. E. Tuttolomondo, E. L. Varetti, D. A. Wann, H. E. Robertson, D. W. H. Rankin and A. Ben Altabef J. Mol. Struct. **978** (2010), 114
$C_4H_9F_3O_3SSi$ $(CH_3)_3SiSO_2OCF_3$	**Trimethylsilyl trifluoromethanesulfonate** Vibrational spectra and structure by ED and *ab initio* calculations M. E. Defonsi Lestard, M. E. Tuttolomondo, E. L. Varetti, D. A. Wann, H. E. Robertson, D. W. H. Rankin and A. Ben Altabef J. Mol. Struct. **984** (2010), 376
$C_4H_{10}Cl_2Si$	**Diethyldichlorosilane** Structure and conformations by ED, IR and Raman spectroscopies and quantum chemical calculations

$Si(CH_2CH_3)_2Cl_2$	M. Montejo, D. A. Wann, P. G. Rodríguez Ortega, H. E. Robertson, F. Márquez, D. W. H. Rankin and J. J. López González J. Raman Spectrosc. **41** (2010), 1323
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_6HCl_5 C_6HCl_5	**Pentachlorobenzene** Structure by ED and liquid crystal NMR spectroscopy R. Blom, D. A. Wann, D. W. H. Rankin et al. Manuscript in preparation.
$C_6H_2Cl_4$ 1,2,3,4-$C_6H_2Cl_4$	**1,2,3,4-Tetrachlorobenzene** Structure by ED and liquid crystal NMR spectroscopy R. Blom, D. A. Wann, D. W. H. Rankin et al. Manuscript in preparation.
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.
$C_6H_4F_2$ 1,2-$C_6H_4F_2$	**1,2-Difluorobenzene** Structure by ED and liquid crystal NMR spectroscopy E. M. Brown, D. A. Wann and D. W. H. Rankin J. Mol. Struct. **984** (2010), 102
$C_6H_4F_2$ $C_6H_4F_2$	**1,3-Difluorobenzene** Structure by ED and liquid crystal NMR spectroscopy E. M. Brown, D. A. Wann and D. W. H. Rankin J. Mol. Struct. **984** (2010), 102
$C_6H_{12}F_6Si_2$ $CF_3Me_2SiSiMe_2CF_3$	**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.
$C_9H_{28}Si_4$ $C(SiMe_2H)_4$	**Tetrakis(dimethylsilyl)methane** Structure by ED and computational methods K. Bätz, P. D. Lickiss, S. L. Masters, H. E. Robertson and D. W. H. Rankin Manuscript in preparation.
$C_{10}H_{17}P$ $C_{10}H_{15}PH_2$	**Adamantylphosphine** Structure by ED and *ab initio* calculations D. A. Wann, A. R. Turner, J. R. Goerlich, L. J. Kettle, R. Schmutzler and D. W. H. Rankin Struct. Chem., in press.
$C_{10}H_{20}N_2$ $ButN{=}CHCH{=}NBut$	**N,N'-Di-tert-butyl-1,4-diaza-1,3-butadiene** Structure by ED and computational methods C. Jones, D. A. Wann, H. E. Robertson and D. W. H. Rankin Manuscript in preparation.
$C_{10}H_{26}Ga_2O_4$ $[Me_2Ga(OCH_2CH_2OMe)]_2$	**Di-μ-ethoxydiethoxydimethyldigallium** 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.
$C_{10}H_{30}Si_4$ $(Me_3Si)_3CSiH_3$	**(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.
$C_{12}H_{30}Ga_2O_2$	**Di-μ-tert-butoxymethyldigallium** Structure by ED and *ab initio* calculations

$[Me_2GaOtBu]_2$	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.
$C_{16}H_{24}O_{12}Si_8$ $Si_8O_{12}(CH=CH_2)_8$	**Octavinyl silsesquioxane** Structure by ED and *ab initio* calculations D. A. Wann, C. N. Dickson, P. D. Lickiss, H. E. Robertson and D. W. H. Rankin Manuscript submitted.
$C_{24}H_{72}O_{20}Si_{16}$ $Si_8O_{12}(OSiMe_3)_8$	**Octakis(trimethylsiloxy)octasilsesquioxane** Structure by ED and *ab initio* calculations D. A. Wann, C. N. Dickson, P. D. Lickiss, H. E. Robertson and D. W. H. Rankin Manuscript submitted.
$C_{48}H_{40}O_{12}Si_8$ $Si_8O_{12}(C_6H_5)_8$	**Octa-phenyl-silsesquioxane** 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
FNa NaF	**Sodium fluoride** Structure by ED and *ab initio* calculations P. D. McCaffrey, D. A. Wann, R. J. Mawhorter and D. W. H. Rankin Manuscript in preparation.
F_2Na_2 Na_2F_2	**Sodium fluoride dimer** Structure by ED and *ab initio* calculations P. D. McCaffrey, D. A. Wann, R. J. Mawhorter and D. W. H. Rankin Manuscript in preparation.
INa NaI	**Sodium iodide** Structure by ED and *ab initio* calculations P. D. McCaffrey, D. A. Wann, R. J. Mawhorter and D. W. H. Rankin Manuscript in preparation.
I_2Na_2 Na_2I_2	**Sodium iodide dimer** Structure by ED and *ab initio* calculations P. D. McCaffrey, D. A. Wann, R. J. Mawhorter and D. W. H. Rankin Manuscript in preparation.