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$C_2F_6O_2S_2$ $CF_3SO_2SCF_3$	**Trifluoromethanesulfonothioic acid trifluoromethyl ester** Structure by ED and ab initio calculations *S. L. Masters, D. A. Wann, H. E. Robertson, D. W. H. Rankin, A. Ben Altabef et al.* Manuscript in preparation
C_2H_2O $C(H_2)CO$	**Ketene** Structure by VHT-ED generation of pyrolysis products *S. J. Atkinson, R. Noble-Eddy, and S. L. Masters* Manuscript complete
$C_2H_4O_2$ $CH_3C(O)OH$	**Acetic acid** Structure by VHT-ED generation of pyrolysis products *S. J. Atkinson, R. Noble-Eddy, and S. L. Masters* Manuscript complete
$C_3H_6Cl_3N$ $N(CH_2Cl)_3$	**Tris(chloromethyl)amine** Structure by ED, Raman Spectroscopy and computational methods *S. J. Atkinson, H. E. Robertson, N. W. Mitzel, and S. L. Masters* Manuscript in preparation
$C_4H_6O_3$ $CH_3C(O)OC(O)CH_3$	**Acetic anhydride** Structure by VHT-ED *S. J. Atkinson, R. Noble-Eddy, and S. L. Masters* Manuscript complete
$C_6H_8O_4$	**2,2-Dimethyl-1,3-dioxane-4,6-dione (Meldrum's acid)** Structure by ED and ab initio calculations *S. J. Atkinson 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, H. E. Robertson, D. A. Wann, M. Hoelbling, K. Hassler, R. Bjornsson, S. Ó. Wallevik, and I. Arnason* J. Phys. Chem. A, in press
$C_7H_{16}Cl_3PSi$ $(tBu)(iPr)PSiCl_3$	**(Tert-butyl)(iso-propyl)(trichlorosilyl)phosphine** Structure by ED and ab initio calculations *C. O. Burn, E. Seppälä, H. E. Robertson, W.-W. du Mont, and S. L. Masters* Manuscript in preparation
$C_9H_{24}Br_4Si_4$ $C(SiMe_2Br)_4$	**Tetrakis(bromodimethylsilyl)methane** Structure by ED and computational methods *D. A. Wann, S. Young, K. Bätz, S. L. Masters, A. G. Avent, D. W. H. Rankin, and P. D. Lickiss* Z. Naturforsch., **69b** (2014), 1321
$C_9H_{24}Cl_4Si_4$ $C(SiMe_2Cl)_4$	**Tetrakis(chlorodimethylsilyl)methane** Structure by ED and computational methods *D. A. Wann, S. Young, K. Bätz, S. L. Masters, A. G. Avent, D. W. H. Rankin, and P. D. Lickiss*

	Z. Naturforsch., **69b** (2014), 1321
$C_9H_{24}F_4Si_4$ $C(SiMe_2F)_4$	**Tetrakis(fluorodimethylsilyl)methane** Structure by ED and computational methods *D. A. Wann, S. Young, K. Bätz, S. L. Masters, A. G. Avent, D. W. H. Rankin, and P. D. Lickiss* Z. Naturforsch., **69b** (2014), 1321
$C_9H_{28}Si_4$ $C(SiMe_2H)_4$	**Tetrakis(dimethylsilyl)methane** Structure by ED and computational methods *D. A. Wann, S. Young, K. Bätz, S. L. Masters, A. G. Avent, D. W. H. Rankin, and P. D. Lickiss* Z. Naturforsch., **69b** (2014), 1321
$C_{11}H_{30}Br_2Si_4$ $C(SiMe_3)_2(SiMe_2Br)_2$	**Bis(bromodimethylsilyl)bis(trimethylsilyl)methane** Structure by ED and computational methods *D. A. Wann, M. S. Robinson, K. Bätz, S. L. Masters, A. G. Avent, and P. D. Lickiss* J. Phys. Chem. A, in press
$C_{11}H_{30}Cl_2Si_4$ $(Me_3Si)_2C(SiClMe_2)_2$	**Bis(chlorodimethylsilyl)-bis(trimethylsilyl)methane** Structure by ED and computational methods *D. A. Wann, M. S. Robinson, K. Baetz, S. L. Masters, A. G. Avent, and P. D. Lickiss* J. Phys. Chem. A, in press
$C_{11}H_{32}Si_4$ $C(SiMe_3)_2(SiMe_2H)_2$	**Bis(dimethylsilyl)bis(trimethylsilyl)methane** Structure by ED and computational methods *D. A. Wann, M. S. Robinson, K. Bätz, S. L. Masters, A. G. Avent, and P. D. Lickiss* J. Phys. Chem. A, in press
$C_{12}H_{38}Si_6$ $Si_2H_2(SiMe_3)_4$	**1,1,2,2-Tetrakis(trimethylsilyl)disilane** Structure by ED and ab initio calculations *J. Schwabedissen, P. D. Lane, S. L. Masters, K. Hassler, and D. A. Wann* Dalton Trans., **43** (2014), 10175
$C_{14}H_{14}O_2S$ $(C_6H_5CH_2)_2SO_2$	**Dibenzyl sulfone** Structure by ED and ab initio / DFT methods *R. Noble-Eddy, H. E. Robertson, and S. L. Masters* Manuscript in preparation
$C_{14}H_{42}Si_6$ $(SiMe_3)_2MeSiSiMe(SiMe_3)_2$	**1,1,2,2,-Tetrakis-trimethylsilyl-1,2-dimethyldisilane** Structure by ED and ab initio calculations *J. Schwabedissen, P. D. Lane, S. L. Masters, K. Hassler, and D. A. Wann* Dalton Trans., **43** (2014), 10175
$C_{18}H_{54}Si_8$ $(SiMe_3)_3SiSi(SiMe_3)_3$	**Hexakis-trimethylsilyl-disilane** Vibrational spectra and structure by ED and ab initio calculations *K. Hassler, H. E. Robertson, S. L. Masters et al.* Manuscript in preparation