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C₂F₆O₂S₂ CF₃SO₂SCF₃	Trifluoromethanesulfonothioic acid trifluoromethyl ester S. L. Masters, D. A. Wann, H. E. Robertson, D. W. H. Rankin, A. Ben Altabef et al. <i>Structure by ED and ab initio calculations</i> Manuscript in preparation
C₂H₆Br₄Si₂ Br₃SiSiBrMe₂	1,1,1,2-Tetrabromo-2,2-dimethyldisilane S. L. Masters, S. J. Atkinson, M. Hölbling, and K. Hassler <i>Structure by ED and ab initio calculations</i> Struct. Chem., 24 (2013), 1201
C₃H₆Cl₃N N(CH₂Cl)₃	Tris(chloromethyl)amine N. W. Mitzel, J. T. Schirlin, S. L. Masters, D. W. H. Rankin et al. <i>Structure by ED and computational methods</i> Manuscript in preparation
C₃H₉Br₃Si₂ Br₃SiSiMe₃	1,1,1-Trimethyl-2,2,2-tribromodisilane S. J. Atkinson, H. E. Robertson, M. Hölbling, W.-W. du Mont, C. Mitrofan, K. Hassler, and S. L. Masters <i>Structure by ED and ab initio calculations</i> Struct. Chem., 24 (2013), 851
C₃H₉Cl₃Si₂ Me₃SiSiCl₃	1,1,1-Trichloro-2,2,2-trimethyldisilane S. J. Atkinson, H. E. Robertson, M. Hölbling, W.-W. du Mont, C. Mitrofan, K. Hassler, and S. L. Masters <i>Structure by ED and ab initio calculations</i> Struct. Chem., 24 (2013), 851
C₃H₉F₃Si₂ F₃SiSiMe₃	1,1,1-Trifluoro-2,2,2-trimethyldisilane S. J. Atkinson, H. E. Robertson, M. Hölbling, W.-W. du Mont, C. Mitrofan, K. Hassler, and S. L. Masters <i>Structure by ED and ab initio calculations</i> Struct. Chem., 24 (2013), 851
C₃H₁₂Si₂ H₃SiSiMe₃	Trimethylsilylsilane S. J. Atkinson, H. E. Robertson, M. Hölbling, W.-W. du Mont, C. Mitrofan, K. Hassler, and S. L. Masters <i>Structure by ED and ab initio calculations</i> Struct. Chem., 24 (2013), 851
C₆H₈O₄	2,2-Dimethyl-1,3-dioxane-4,6-dione (Meldrum's acid) R. Noble-Eddy, H. E. Robertson, and S. L. Masters <i>Structure by ED and ab initio calculations</i> Manuscript in preparation
C₆H₁₂F₆Si₂ CF₃Me₂SiSiMe₂CF₃	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. <i>Structure by ED, X-ray diffraction and ab initio calculations, interpretation of Raman spectra</i> Manuscript in preparation
	(Tert-butyl)(iso-propyl)(trichlorosilyl)phosphine

C₇H₁₆Cl₃PSi (tBu)(iPr)PSiCl ₃	E. Seppälä, W.-W. du Mont, S. L. Masters, D. W. H. Rankin, and H. E. Robertson <i>Structure by ED and ab initio calculations</i> Manuscript in preparation
C₉H₂₄Br₄Si₄ C(SiMe ₂ Br) ₄	Tetrakis(bromodimethylsilyl)methane D. A. Wann, K. Bätz, S. Young, S. L. Masters, H. E. Robertson, and P. D. Lickiss <i>Structure by ED and computational methods</i> Manuscript completed
C₉H₂₄Cl₄Si₄ C(SiMe ₂ Cl) ₄	Tetrakis(chlorodimethylsilyl)methane D. A. Wann, K. Bätz, S. Young, S. L. Masters, H. E. Robertson, and P. D. Lickiss <i>Structure by ED and computational methods</i> Manuscript completed
C₉H₂₄F₄Si₄ C(SiMe ₂ F) ₄	Tetrakis(fluorodimethylsilyl)methane D. A. Wann, K. Bätz, S. Young, S. L. Masters, H. E. Robertson, and P. D. Lickiss <i>Structure by ED and computational methods</i> Manuscript completed
C₉H₂₈Si₄ C(SiMe ₂ H) ₄	Tetrakis(dimethylsilyl)methane D. A. Wann, K. Bätz, S. Young, S. L. Masters, H. E. Robertson, and P. D. Lickiss <i>Structure by ED and computational methods</i> Manuscript completed
C₁₁H₃₀Br₂Si₄ C(SiMe ₃) ₂ (SiMe ₂ Br) ₂	Bis(bromodimethylsilyl)bis(trimethylsilyl)methane D. A. Wann, K. Bätz, M. S. Robinson, S. L. Masters, H. E. Robertson, and P. D. Lickiss <i>Structure by ED and computational methods</i> Manuscript completed
C₁₁H₃₀Cl₂Si₄ (Me ₃ Si) ₂ C(SiCIME ₂) ₂	Bis(chlorodimethylsilyl)-bis(trimethylsilyl)methane D. A. Wann, K. Bätz, M. S. Robinson, S. L. Masters, H. E. Robertson, and P. D. Lickiss <i>Structure by ED and computational methods</i> Manuscript completed
C₁₁H₃₂Si₄ C(SiMe ₃) ₂ (SiMe ₂ H) ₂	Bis(dimethylsilyl)bis(trimethylsilyl)methane D. A. Wann, K. Bätz, M. S. Robinson, S. L. Masters, H. E. Robertson, and P. D. Lickiss <i>Structure by ED and computational methods</i> Manuscript completed
C₁₂H₃₈Si₆ Si ₂ H ₂ (SiMe ₃) ₄	1,1,2,2-Tetrakis(trimethylsilyl)disilane J. Schwabedissen, P. D. Lane, S. L. Masters, K. Hassler, and D. A. Wann <i>Structure by ED and ab initio calculations</i> Manuscript completed
C₁₄H₁₄O₂S (C ₆ H ₅ CH ₂) ₂ SO ₂	Dibenzyl sulfone R. Noble-Eddy, H. E. Robertson, and S. L. Masters <i>Structure by ED and ab initio / DFT methods</i> Manuscript in preparation
C₁₄H₄₂Si₆ (SiMe ₃) ₂ MeSiSiMe(SiMe ₃) ₂	1,1,2,2-Tetrakis(-trimethylsilyl)-1,2-dimethyldisilane J. Schwabedissen, P. D. Lane, S. L. Masters, K. Hassler, and D. A. Wann <i>Structure by ED and ab initio calculations</i> Manuscript completed
	Hexakis(-trimethylsilyl)-disilane

C₁₈H₅₄Si₈ (SiMe ₃) ₃ SiSi(SiMe ₃) ₃	K. Hassler, H. E. Robertson, S. L. Masters et al. <i>Vibrational spectra and structure by ED and ab initio calculations</i> Manuscript in preparation
Sb₄O₆	Antimony oxide dimer S. L. Masters, G. V. Girichev, and S. A. Shlykov <i>Structure by VHT-ED and ab initio calculations</i> Dalton Trans., 42 (2013), 3581