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CF_2NOPS $F_2P(S)NCO$	**Difluorothiophosphoryl isocyanate** Structure by GED and XRD *J. Schwabedissen, P. C. Trapp, H.-G. Stammler, N. W. Mitzel, Z. Wu, X. Chu and X. Zeng* *ChemistryOpen* 9 (**2020)** 913-920.
$C_3H_2F_4$ $F_3CC(F)=CH_2$	**2,3,3,3-Tetrafluoropropene** Structure by GED; structure and electron density by XRD *J. Schwabedissen, Yu. V. Vishnevskiy, T. Glodde, H.-G. Stammler, N. W. Mitzel, L. Flierl, and A. Kornath* *ChemistryOpen* 9 (**2020)** 921-928.
$C_3H_2F_4$ $F_3CC(H)=CHF$	***trans* -1,3,3,3-Tetrafluoropropene** Structure by GED; structure and electron density by XRD *J. Schwabedissen, Yu. V. Vishnevskiy, T. Glodde, H.-G. Stammler, N. W. Mitzel, L. Flierl, and A. Kornath* *ChemistryOpen* 9 (**2020)** 921-928.
$C_5H_5N_3O$ $C_4H_3N_2$-$C(O)NH_2$	**Pyrazinamide** Structure by GED *A. Otletov, T. Glodde, A.N. Rykov, G. V. Girichev, and Yu. V. Vishnevskiy* J. Phys. *Chem. A* 124 (**2020)** 5204-5211.
$C_2H_4O_2$ CH_3COOH	**Acetic acid monomer** Structure by combined GED+MS method *Yu. V. Vishnevskiy, S. Blomeyer, C. G. Reuter, O. Pimenov, and S. A. Shlykov* *Rev. Sci. Instrum.* 91 (**2020)** 073103
$C_4H_8O_4$ $(CH_3COOH)_2$	**Acetic acid dimer** Structure by combined GED+MS method *Yu. V. Vishnevskiy, S. Blomeyer, C. G. Reuter, O. Pimenov, and S. A. Shlykov* *Rev. Sci. Instrum.* 91 (**2020)** 073103
$C_{16}H_{12}F_{10}Si_2$ **C_6F_5-$(CH_3)_2Si$-$Si(CH_3)_2$-C_6F_5**	**1,2-Bis(pentafluorophenyl)-1,1,2,2-tetramethyldisilane** Structure by GED and XRD *M. Linnemannstöns, J. Schwabedissen, B. Neumann, H.-G. Stammler, R. J. F. Berger, and N. W. Mitzel* *Chem. Eur. J. 26 (***2020)** 2169-2173
$C_{16}H_{12}Cl_{10}Si_2$	**1,2-Bis(pentachlorophenyl)-1,1,2,2-tetramethyldisilane** Structure by GED

C_6Cl_5-$(CH_3)_2$Si-Si$(CH_3)_2$-C_6Cl_5	*M. Linnemannstöns, J. Schwabedissen, B. Neumann, H.-G. Stammler, R. J. F. Berger, and N. W. Mitzel* *Chem. Eur. J 26 (* **2020)** 2169-2173
$C_{16}H_{17}F_5Si_2$ C_6H_5-$(CH_3)_2$Si-Si$(CH_3)_2$-C_6F_5	**1-(Phenyl)-2-(pentafluorophenyl)-1,1,2,2-tetramethyldisilane** Structure by GED and XRD *M. Linnemannstöns, J. Schwabedissen, A. A. Schultz, B. Neumann, H.-G. Stammler, R. J. F. Berger, and N. W. Mitzel* *Chem. Commun. 56 (* **2020)** 2252-2255.
$C_{16}H_{17}Cl_5Si_2$ C_6H_5-$(CH_3)_2$Si-Si$(CH_3)_2$-C_6Cl_5	**1-(Phenyl)-2-(pentachlorophenyl)-1,1,2,2-tetramethyldisilane** Structure by GED and XRD *M. Linnemannstöns, J. Schwabedissen, A. A. Schultz, B. Neumann, H.-G. Stammler, R. J. F. Berger, and N. W. Mitzel* Chem. Commun. 26 (**2020)** 2252-2255.
$C_{16}H_{12}F_5Cl_5Si_2$ C_6F_5-$(CH_3)_2$Si-Si$(CH_3)_2$-C_6Cl_5	**1-(Pentafluorophenyl)-2-(pentachlorophenyl)-1,1,2,2-tetramethyldisilane** Structure by GED and XRD *M. Linnemannstöns, J. Schwabedissen, A. A. Schultz, B. Neumann, H.-G. Stammler, R. J. F. Berger, and N. W. Mitzel* *Chem. Commun. 26 (* **2020)** 2252-2255.
$C_{11}H_{12}NF_5Te$ $(CH_3)_2N$-$(CH_2)_3$-Te-C_6F_5	**(*N*,*N*-Dimethylaminopropyl)(pentafluorophenyl)tellurium** Structure and conformational analysis by GED; structure by XRD *T. Glodde,Yu. V. Vishnevskiy, L. Zimmermann, H.-G. Stammler, B. Neumann, and N. W. Mitzel* *Angew. Chem. Int. Ed.* ***60 (*** **2021)** 1519-1523
$C_7H_3F_5Te$ CH_3-Te-C_6F_5	**(Pentafluorophenyl)methyltellurium** Structure and conformational analysis by GED; structure by XRD *T. Glodde,Yu. V. Vishnevskiy, L. Zimmermann, H.-G. Stammler, B. Neumann, and N. W. Mitzel* *Angew. Chem. Int. Ed.* **60 (2021)** 1519-1523
$C_2H_{11}B_{10}Br$	**9-Bromo-*closo*-1,2-dicarbadodecaborane** Structure by GED *J. Holoub, Yu. V. Vishnevskiy, J. Fanfrlík, N. W. Mitzel, D. Tikhonov, J. Schwabedissen, M. L. McKee, and D. Hnyk* *ChemPlusChem* 85 (**2020)** 2606-2610.
$C_{14}H_9F_5O_2$ C_6H_5-O-$(CH_2)_2$-O-C_6F_5	**1-(Pentafluorophenoxy)-2-(phenoxy)ethane** Structure by GED and XRD, conformational behaviour by GED J.-H. Weddeling, Yu. V. Vishnevskiy, B. Neumann, H.-G. Stammler, and N. W. Mitzel *Chem. Eur. J.* 26 (**2020)** 16111-16121.
$C_{14}H_{39}Al$ $((Me_3Si)_2CH)_2AlH$	**Bis(bis(trimethylsilyl)methyl)alane** Structure by GED *N. Aders, J. Schwabedissen, and N. W. Mitzel* Manuscript in preparation
$C_{10}H_{11}F_3Se$ Ph-$(CH_2)_3$-Se-CF_3	**(3-Phenylpropyl)(trifluoromethyl)selenium** Structure and conformational analysis by GED and microwave spectroscopy (GED+MW); structure by XRD *T. Glodde, Yu. V. Vishnevskiy, J. Schwabedissen, C. Pérez, M. Schnell, and N. W. Mitzel* Manuscript in preparation
$C_{12}F_{10}Se_2$ $[(C_6F_5)Se]_2$	**1,2-Bis(pentafluorophenyl) diselenide** Structure and conformational analysis by GED; structure by XRD *T. Glodde, J. Kanning, B. Neumann, and N. W. Mitzel* Manuscript in preparation
$C_{15}H_{11}F_5Se$	**(3-Phenylpropyl)(pentafluorophenyl)selenium** Structure and conformational analysis by GED; structure by XRD

Ph-$(CH_2)_3$-Se-C_6F_5	*T. Glodde, H.-G. Stammler, and N. W. Mitzel* Manuscript in preparation
CI_4	**Carbon tetraiodide** Structure by LPGED *Yu. V. Vishnevskiy, S. Blomeyer, and C. G. Reuter* *Rev. Sci. Instrum.* 91 (**2020)** 074104
CHI_3 CHI_3	**Iodoform** Structure by LPGED *Yu. V. Vishnevskiy, S. Blomeyer, and C. G. Reuter* *Rev. Sci. Instrum.* 91 (**2020)** 074104
$C_7H_6O_2$ Ph-C(O)OH	**Benzoic acid** Structure by LPGED *Yu. V. Vishnevskiy, S. Blomeyer, and C. G. Reuter* *Rev. Sci. Instrum.* 91 (**2020)** 074104
CCl_4	**Carbon tetrachloride** Structure by GED *Yu. V. Vishnevskiy, S. Blomeyer, and C. G. Reuter* *Struct. Chem. 31* **(2020)** 667
CO_2	**Carbon dioxide** Structure refined from rotational constants *Yu. V. Vishnevskiy, S. Blomeyer, and C. G. Reuter* *Struct. Chem.* 31 (**2020)** 667
$C_{90}H_{138}Si_6$ Si_6Tip_6	**2,3,3,4,6,6- Hexakis(2',4',6'-triisopropylphenyl)tetracyclo[2.2.0.0^{1,5}.0^{2,5}]hexasilane** Structure by combined GED+MS method *Yu. V. Vishnevskiy, J. Schwabedissen, and D. Scheschkewitz* Manuscript in preparation
$C_{20}H_4F_{24}KLaO_8$ **$[KLa(C_5HF_6O_2)_4]$**	**Potassium tetrakis(hexafluoroacetylacetonato)lanthanate(III)** Structure by GED *G. V. Girichev, N. I. Giricheva, A. E. Khochenkov, V. V. Sliznev, N. V. Belova, and N. W. Mitzel* *Chem. Eur. J.* 27 (**2021)** 1103–1112
$C_{20}H_4F_{24}GdKO_8$ **$[KGd(C_5HF_6O_2)_4]$**	**Potassium tetrakis(hexafluoroacetylacetonato)gadolinate(III)** Structure by GED *G. V. Girichev, N. I. Giricheva, A. E. Khochenkov, V. V. Sliznev, N. V. Belova, and N. W. Mitzel* *Chem. Eur. J.* 27 (**2021)** 1103–1112
$C_{20}H_4F_{24}KLuO_8$ **$[KLu(C_5HF_6O_2)_4]$**	**Potassium tetrakis(hexafluoroacetylacetonato)lutetate(III)** Structure by GED *G. V. Girichev, N. I. Giricheva, A. E. Khochenkov, V. V. Sliznev, N. V. Belova, and N. W. Mitzel* *Chem. Eur. J.* 27 (**2021)** 1103 –1112
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