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Br₃Y YBr ₃	Yttrium tribromide Structure by QC calculations <i>L. E. Khaustova and S. A. Shlykov</i> Finished
C₄H₁₄OSi₃ C ₃ Si ₃ (OCH ₃)H ₁₁	1-Methoxy-1,3,5-trisilacyclohexane Structure by QC calculations <i>S. A. Shlykov</i> QC calculations in progress
C₅H₁₁FOSi OC ₄ H ₈ SiFCH ₃	3-Fluoro-3-methyl-3-silatetrahydropyran Structure by GED/MS QC calculations <i>S. V. Kirpichenko, B. A. Shainyan, E. Kleinpeter, S. A. Shlykov, T. D. Phien, and A. I. Albanov</i> Tetrahedron, 74 (2018) 1859
C₅H₁₇NSi₃ C ₃ Si ₃ N(CH ₃) ₂ H ₁₁	N,N-Dimethylamine-1,3,5-trisilacyclohexane Structure by GED/MS and QC calculations <i>B. V. Puchkov and S. A. Shlykov</i> Refinement finished
C₆H₇NO NOC ₆ H ₇	4-Methyl-pyridine-N-oxide Structure by GED/MS and QC calculations <i>N. V. Belova, G. V. Girichev, V. E. Kotova, K. A. Korolkova, and N. H. Trang</i>

	J. Mol. Struct., 1156 (2018) 210
C₆H₁₄SiO C ₅ H ₁₀ SiHOCH ₃	1-Methoxy-1-silacyclohexane Structure by GED/MS QC calculations S. A. Shlykov, B. V. Puchkov, I. Arnason, S. Ó. Wallevik, N. I. Giricheva, G. V. Girichev, and Yu. A. Zhabanov J. Mol. Struct., 1154 (2018) 570
C₆H₆	Benzene Structure by GED/MS and QC N. W. Mitzel, N. V. Tverdova, A. A. Otlyotov, V. M. Petrov, V. N. Petrova, N. I. Giricheva, and G. V. Girichev Manuscript in preparation
C₇H₁₁N C ₆ H ₁₁ CN	Cyanocyclohexane Structure by GED/MS QC calculations T. D. Phien, L. E. Kuzmina, Á. Kvaran, S. Jonsdottir, I. Arnason, and S. A. Shlykov J. Mol. Struct., 1168 (2018) 127
C₇H₁₇NSi C ₅ H ₁₀ SiHN(CH ₃) ₂	1-Dimethylamino-1-silacyclohexane Structure by GED/MS QC calculations L. E. Kuzmina, I. Arnason, S. Ó. Wallevik, N. I. Giricheva, G. V. Girichev, and S. A. Shlykov J. Mol. Struct., 1176 (2019) 275
C₈H₆N₂O₂	3-Aminophthalimide Structure by GED/MS and QC D. S. Savelyev, M. K. Islyaikin, N. I. Giricheva, N. Vogt, J. Vogt, and G. V. Girichev Manuscript in preparation
C₉H₉NO₂S β-C ₁₀ H ₇ SO ₂ NH ₂	β-Naphthalene sulfonamide IR spectrum N. I. Giricheva, G. V. Girichev, D. Christen, S. N. Ivanov, V. M. Petrov, and V. N. Petrova Manuscript in ready
C₁₀H₆Cl₂O₄S₂ 1,5-C ₁₀ H ₆ (SO ₂ Cl) ₂	1,5-Naphthalene disulfonylchloride IR spectrum N. I. Giricheva, G. V. Girichev, D. Christen, S. N. Ivanov, V. M. Petrov, and V. N. Petrova Manuscript in ready
C₁₀H₇ClO₂S β-C ₁₀ H ₇ (SO ₂ Cl)	β-Naphthalene sulfonylchloride IR spectrum N. I. Giricheva, G. V. Girichev, D. Christen, S. N. Ivanov, V. M. Petrov, and V. N. Petrova Manuscript in ready
C₁₀H₇ClO₂S α-C ₁₀ H ₇ (SO ₂ Cl)	α-Naphthalene sulfonylchloride IR spectrum N. I. Giricheva, G. V. Girichev, D. Christen, S. N. Ivanov, V. M. Petrov, and V. N. Petrova Manuscript in ready
C₁₀H₉NO₂S α-C ₁₀ H ₇ SO ₂ NH ₂	α-Naphthalene sulfonamide IR spectrum N. I. Giricheva, G. V. Girichev, D. Christen, S. N. Ivanov, V. M. Petrov, and V. N. Petrova Manuscript in ready
C₁₀H₁₂O₃ C ₃ H ₇ -O-C ₆ H ₄ -COOH	p-n-propyloxybenzoic acid Vibrations and structural nonrigidity of different type hydrogen-bonded complexes N. I. Giricheva, M. S. Fedorov, K. E. Shpilevaya, S. A. Syrбу, and G. V. Girichev

	Liq. Cryst. Appl., 18 (2018) 14
C₁₀H₁₄MnO₄ Mn(CH ₃ COCHCOCH ₃) ₂	Bis-acetylacetonato-manganese(II) Ligands coordination in bis(beta-diketonato) d-metals – the Mn(II) case: perpendicular versus flat <i>R. J. F Berger, G. V. Girichev, N. I. Giricheva, A. Otlyotov, and A. Petrova</i> Inorg. Chem. (2018) submitted.
C₁₀H₁₈Si₂ (CH ₃) ₃ Si-C-C≡C-C-Si(CH ₃) ₃	1,4-Bis(trimethylsilyl)-1,3-butadiyne Structure by GED/MS and QC <i>N. V. Tverdova, A. A. Otlyotov, N. I. Giricheva, N. W. Mitzel, G. V. Girichev</i> Manuscript in preparation
C₁₁H₁₂N₂O₂ COOHCH(NH ₂)CH ₂ C ₈ H ₆ N	L-Tryptophan Structure by GED/MS and QC <i>V. V. Tyunina, N. I. Giricheva, and G. V. Girichev</i> Manuscript in preparation
C₁₁H₁₆OSi C ₅ H ₁₀ SiOHC ₆ H ₅	1-Phenyl-1-hydroxy-1-silacyclohexane Structure by GED/MS QC calculations <i>T. D. Phien, L. E. Kuzmina, B. A. Shainyan, and S. A. Shlykov</i> Manuscript in preparation
C₁₂H₈	Acenaphthylene Structure by QC <i>N. V. Tverdova, A. A. Otlyotov, N. I. Giricheva, N. W. Mitzel, and G. V. Girichev</i> Manuscript in preparation
C₁₂H₁₀	Acenaphthene Structure by GED/MS and QC <i>N. V. Tverdova, A. A. Otlyotov, N. I. Giricheva, N. W. Mitzel, and G. V. Girichev</i> Manuscript in preparation
C₁₂H₁₄N₂O₂S (CH ₃) ₂ N-C ₁₀ H ₆ -SO ₂ NH ₂	Dansylamide Conformer structure by GED/MS QC calculations <i>M. Dakkouri, G. Girichev, N. Giricheva, V. Petrov, and V. Petrova</i> Struct. Chem., 29 (2018) 823
C₁₂H₁₄N₂O₂S (CH ₃) ₂ N-C ₁₀ H ₆ -SO ₂ NH ₂	Dansylamide Conformers and electronic spectra <i>M. S. Fedorov, N. I. Giricheva, E. A. Lapykina, M. S. Korableva</i> Opt. Spectrosc., 125 (2018) 34
C₁₂H₁₈SiO C ₅ H ₁₀ SiO(CH ₃)C ₆ H ₅	1-Phenyl-1-methoxy-1-silacyclohexane Structure by GED/MS QC calculations <i>T. D. Phien, L. E. Kuzmina, B. A. Shainyan, and S. A. Shlykov</i> Manuscript in preparation
C₁₂H₂₄O₆ [C H O]	18-Crown-6 ether Solvation and structure by QC <i>M. A. Volkova, I. A. Kuz'mina, A. E. Pogonin, K. I. Kuz'mina, N. V. Belova, and V. A. Sharnin</i> Russ. J. Phys. Chem. A, 92 (2018) 1494
C₁₃H₂₁NSi C ₅ H ₁₀ SiC ₆ H ₅ N(CH ₃) ₂	1-(Dimethylamino)-1-phenyl-1-silacyclohexane Structure by GED/MS QC calculations <i>B. A. Shainyan, E. N. Suslova, T. D. Phien, S. A. Shlykov, and E. Kleinpeter</i> Tetrahedron, 74 (2018) 4299
C₁₄H₁₀	Anthracene Structure by GED/MS and QC

$C_{14}H_{10}$	<i>N. W. Mitzel, N. V. Tverdova, A. A. Otlyotov, V. M. Petrov, V. N. Petrova, N. I. Giricheva, and G. V. Girichev</i> Manuscript in preparation
$C_{15}H_{15}NO_3$ $C_3H_7-O-C_6H_4-COO-C_5H_4N$	4'-Pyridyl 4-propyloxybenzoate Vibrations and structural nonrigidity of different type hydrogen-bonded complexes <i>N. I. Giricheva, M. S. Fedorov, K. E. Shpilevaya, S. A. Syrbu, and G. V. Girichev</i> Liq. Cryst. Appl., 18 (2018) 14
$C_{16}H_{15}NO$ $C_3H_7-O-(C_6H_4)_2-CN$	4'-n-Propyloxy-4-biphenylcarbonitrile Vibrations and structural nonrigidity of different type hydrogen-bonded complexes <i>N. I. Giricheva, M. S. Fedorov, K. E. Shpilevaya, S. A. Syrbu, and G. V. Girichev</i> Liq. Cryst. Appl., 18 (2018) 14
$C_{18}H_3N_{21}S_6$ $C_{18}H_3N_{21}S_6$	Thiadiazole annulated hemihexaphyrazine Conformer structure by QC calculations <i>A. A. Otlyotov, A. P. Merlyan, V. V. Veretennikov, A. E. Pogonin, E. N. Ivanov, Y. E. Filippova, Yu. A. Zhabanov, and M. K. Islyaikin</i> Macroheterocycles, 11 (2018) 67
$C_{20}H_4F_{24}GdO$ $KGd(hfa)_4$	Gadolinium tetrakis-hexafluoroacetylacetonate Structure by GED/MS QC calculations <i>G. V. Girichev, N. I. Giricheva, A. E. Khochenkov, N. V. Belova, and V. V. Sliznev</i> Manuscript in ready
$C_{20}H_4F_{24}LaO_{12}$ $KLa(hfa)_4$	Lanthanum tetrakis-hexafluoroacetylacetonate Structure by GED/MS QC calculations <i>G. V. Girichev, N. I. Giricheva, A. E. Khochenkov, N. V. Belova, and V. V. Sliznev</i> Manuscript in ready
$C_{20}H_4F_{24}LuO_{12}$ $KLu(hfa)_4$	Lutetium tetrakis-hexafluoroacetylacetonate Structure by GED/MS QC calculations <i>G. V. Girichev, N. I. Giricheva, A. E. Khochenkov, N. V. Belova, and V. V. Sliznev</i> Manuscript in ready
$C_{26}H_{16}N_8$ $C_{26}N_8H_{16}$	Hemiporphypazine Structure by GED/MS and QC <i>Yu. A. Zhabanov, A. E. Pogonin, A. A. Otlyotov, M. K. Islyaikin, and G. V. Girichev</i> submitted
$C_{28}H_{18}N_6$ $C_{28}N_6H_{18}$	Dicarbahemiporphyrzine Structure by GED/MS and QC <i>Yu. A. Zhabanov, A. E. Pogonin, A. A. Otlyotov, M. K. Islyaikin, and G. V. Girichev</i> submitted
$C_{28}H_{28}N_4Ni$ $NiN_4C_{28}H_{28}$	Nickel octamethylporphirin Structure by GED/MS and QC <i>A. E. Pogonin, N. V. Tverdova, Yu. V. Minenkov, N. I. Giricheva, and G. V. Girichev</i> Manuscript in preparation
$C_{30}H_{54}Co_4O_{13}$ $Co_4O(OOCCMe_3)_6$	Co oxopivalate Structure by GED/MS and QC calculations <i>A. S. Alikhanyan, G. V. Girichev, N. I. Giricheva, E. A. Morozova, and I. I. Nikitin</i> Manuscript in preparation
$C_{32}H_{36}CoN_4$	Cobalt etioporphyrin-II Structure by GED/MS and QC

$\text{CoN}_4\text{C}_{32}\text{H}_{36}$	<i>G. V. Girichev, A. E. Pogonin, N. V. Tverdova, and N. I. Giricheva</i> Submitted
$\text{C}_{32}\text{H}_{36}\text{N}_4\text{Ni}$ $\text{NiN}_4\text{C}_{32}\text{H}_{36}$	Nickel-etio porphyrin-II Structure by GED/MS and QC <i>G. V. Girichev, A. E. Pogonin, N. V. Tverdova, and N. I. Giricheva</i> Manuscript in preparation
$\text{C}_{44}\text{H}_{28}\text{N}_4\text{Pd}$ $\text{PdN}_4\text{C}_{20}\text{H}_8\text{C}_{24}\text{H}_{20}$	Palladium tetra-phenyl porphyrin Structure by GED/MS and QC <i>G. V. Girichev, N. V. Tverdova, N. I. Giricheva, D. S. Savelyev, V. A. Ol'shevskaya, T. A. Ageeva, A. V. Zaitsev, and O. I. Koifman</i> J. Mol. Struct., 1183 (2019) 137
$\text{C}_{44}\text{H}_{28}\text{N}_4\text{Zn}$ $\text{ZnN}_4\text{C}_{20}\text{H}_8\text{C}_{24}\text{H}_{20}$	Zinc tetra-phenyl porphyrin Structure by GED/MS and QC <i>G. V. Girichev, N. V. Tverdova, N. I. Giricheva, D. S. Savelyev, V. A. Ol'shevskaya, T. A. Ageeva, A. V. Zaitsev, and O. I. Koifman</i> J. Mol. Struct., 1183 (2019) 137
Cl_4Nb NbCl_4	Niobium tetrachloride Structure by GED/MS QC calculations <i>V. V. Sliznev, S. V. Smorodin, and G. V. Girichev</i> submitted
F_5Mo MoF_5	Molybdenum pentafluoride Structure by GED/MS QC calculations <i>V. V. Sliznev, O. A. Pimenov, and G. V. Girichev</i> Manuscript in preparation
	Some rare earth tetrakis-hexafluoroacetylacetonates Enthalpy of sublimation by MS <i>A. E. Khochenkov, N. V. Belova, A. V. Krasnov, Yu. A. Zhabanov, N. I. Giricheva, and G. V. Girichev</i> J. Chem. Thermodyn., 131 (2019) 117
	Pyridoxal 5'-phosphate and isoniazid Conformational behavior from QC <i>A. E. Pogonin, G. A. Gamov, M. N. Zavalishin, and V. A. Sharnin</i> Izv. Vys. Uch.. Zav. Khim. Khim. Tekhnol., 61 (2018) 101
	Leucine and the dimer of sodium dodecyl sulphate Quantum chemical simulation of the interaction <i>N. I. Giricheva, M. S. Kurbatova, E. Yu. Tyunina, and V. P. Barannikov</i> J. Struct. Chem., 59 (2018) 1768
	4-n-alkoxybenzoic acid : 4-pyridyl 4'-nalkoxybenzoate IR spectroscopy and quantum chemical calculations <i>N. I. Giricheva, S. A. Syrbu, K. E. Bubnova, M. S. Fedorov, M. R. Kiselev, and G. V. Girichev</i> Molecular Liq., doi.org/10.1016/j.molliq.2019.01.02
	Dynamics of nuclei and electrons in free molecules and condensed matter <i>S. A. Aseev, A. S. Akhmanov, G. V. Girichev, A. A. Ischenko, I. V. Kochikov, V. Ya. Panchenko, and E. A. Ryabov</i> Phys. Usp., DOI: 10.3367/UFNr.2018.11.038477
	An alternative approach to structural analysis <i>Yu. A. Zhabanov and A. E. Pogonin</i> Comput. Theo. Chem., 1123 (2018) 149