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| C₃H₇NO₂ | α-Alanine (2-aminopropanoic acid) Equilibrium structure by ED and QC <i>E. P. Altova, A. N. Rykov, L. V. Khristenko, E. Yu. L'vova, and I. F. Shishkov</i> Manuscript in preparation |
| C₄H₉NO₃ | Threonine (2-amino-3-hydroxybutanoic acid) Equilibrium structure by ED and QC <i>D. S. Tikhonov, L. S. Khaikin, O. E. Grikina, and A. N. Rykov</i> Work in progress |
| C₅H₄N₂O₄ | Orotic acid (1,2,3,6-tetrahydro-2,6-dioxo-4-pyrimidinecarboxylic acid) Molecular structure and conformations by ED and QC <i>N. Vogt, E. P. Altova, A. N. Rykov, J. Vogt, and I. F. Shishkov</i> Manuscript in preparation |
| C₅H₅N₃O | Pyrazinamide Semi-experimental equilibrium structure from ED <i>D. S. Tikhonov, Yu. V. Vishnevskiy, A. N. Rykov, O. E. Grikina, and L. S. Khaikin</i> J. Mol. Struct. 1132 (2017) 20 |
| C₅H₁₂N₂ | 3,3-Diethyldiaziridine Comparable study by XD and QC <i>V. V. Kuznetsov, I. I. Marochkin, A. S. Goloveshkin, N. N. Makhova, and I. F. Shishkov</i> Struct. Chem. 28 (2017) 1211 |
| C₆H₄N₂ | 4-Pyridinecarbonitrile r _e structure by (ED+MW) and ab initio <i>L. S. Khaikin, N. Vogt, A. N. Rykov, O. E. Grikina, J. Demaison, J. Vogt, I. V. Kochikov, Y. D. Shishova, E. S. Ageeva, and I. F. Shishkov</i> Russ. J. Phys. Chem., submitted |
| C₆H₄N₂ | 3-Pyridinecarbonitrile r _e structure by (ED+MW) and ab initio <i>L. S. Khaikin, N. Vogt, A. N. Rykov, O. E. Grikina, J. Vogt, I. V. Kochikov, E. S. Ageeva, and I. F. Shishkov</i> Mendeleev Comm., submitted |
| C₆H₄N₂ | 2-Pyridinecarbonitrile r _e structure by (ED+MW) and ab initio <i>N. Vogt, L. S. Khaikin, A. N. Rykov, O. E. Grikina, et al</i> |

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| | Work in progress |
| $C_6H_5NO_2$ | Pyridine-2-carboxylic acid (picolinic acid) Molecular structure and conformations by ED and coupled cluster calculations <i>N. Vogt, I. I. Marochkin, A. N. Rykov, and J. Vogt</i> Manuscript submitted |
| $C_6N_2H_{12}$ | N,N'-Dimethyl-3-cyclopropyldiaziridine Synthesis and structure <i>V. V. Kuznetsov, I. I. Marochkin, E. P. Altova, N. N. Makhova, and I. F. Shishkov</i> Manuscript in preparation |
| C_7H_7NS | Thiobenzamide Equilibrium molecular structure by ED and QC <i>I. N. Kolesnikova, A. N. Rykov, and I. F. Shishkov</i> Work in progress |
| $C_8H_4BrNO_2$ | 5-Bromo-1H-indole-2,3-dione Structures by GED and QC <i>A. V. Belyakov, K. O. Nikolaenko, P. B. Davidovich, A. D. Ivanov, A. I. Ponyaev, A. N. Rykov, and I. F. Shishkov</i> J.Mol.Struct. (2018) in press |
| $C_8H_4ClNO_2$ | 5-Chloro-1H-indole-2,3-dione Structures by GED and QC <i>A. V. Belyakov, K. O. Nikolaenko, P. B. Davidovich, A. D. Ivanov, A. I. Ponyaev, A. N. Rykov, and I. F. Shishkov</i> J.Mol.Struct. (2018) in press |
| $C_8H_4FNO_2$ | 5-Fluoro-1H-indole-2,3-dione Structures by GED and QC <i>A. V. Belyakov, K. O. Nikolaenko, P. B. Davidovich, A. D. Ivanov, A. I. Ponyaev, A. N. Rykov, and I. F. Shishkov</i> J.Mol.Struct. (2018) in press |
| $C_8H_5NO_2$ | 1H-indole-2,3-dione, isatin Molecular structure by ED and QC <i>A. V. Belyakov, K. O. Nikolaenko, P. B. Davidovich, A. D. Ivanov, A. V. Garabadzhiu, A. N. Rykov, and I. F. Shishkov</i> J. Mol. Struct. 1132 (2017) 44 |
| $C_9H_6N_2O_3$ | Nitroxoline Equilibrium structure by ED and QC <i>D. S. Tikhonov, D. I. Sharapa, A. N. Rykov, O. E. Grikina, and L. S. Khaikin</i> Manuscript complete |
| $C_9H_9Cl_2N_3$ | N-(2,6-dichlorophenyl)-4,5-dihydro-1H-imidazol-2-amine, clonidine Molecular structure by ED, XD and QC <i>I. N. Kolesnikova, A. N. Rykov, I. F. Shishkov, V. A. Tafeenko, and L. A. Aslanov</i> Phys. Chem. Chem. Phys., 19 (2017) 4618 |
| $C_9H_{12}ClN_5O$ | Moxonidine Molecular structure ED and QC <i>I. N. Kolesnikova, A. N. Rykov, and I. F. Shishkov</i> Work in progress |
| $C_9H_{13}NO_3$ | Adrenaline Structure by ED <i>E. P. Altova, I. I. Marochkin, A. N. Rykov, and I. F. Shishkov</i> Work in progress |
| $C_9H_{18}N_4O_2$ | 1,2-Bis(2-acetamidoethyl)diaziridine Comparable study by XD and QC |

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| | <p>V. V. Kuznetsov, I. I. Marochkin, A. S. Goloveshkin, N. N. Makhova, and I. F. Shishkov Struct. Chem., 28 (2017) 1211</p> |
| $C_{10}H_{12}N_2$ | <p>Tryptamine Molecular structure by ED I. I. Marochkin, E. P. Altova, A. N. Rykov, and I. F. Shishkov J. Mol. Struct., 1148 (2017) 179</p> |
| | <p>Methyl pseudohalides CH₃NCX (X=O, S, Se) Structures and anharmonic vibrational frequencies by QC, interpretation of experimental vibrational spectra L. S. Khaikin and O. E. Grikin 17-th European Symposium on Gas-Phase Electron Diffraction. July 2-6, 2017. Hirschegg, Austria. Abstracts, 38 (2017) 43</p> |