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| **$C_3H_6O_3$**<br>CHO-CHOH-$CH_2OH$ | **D-Glyceraldehyde**<br>N. Vogt, E. G. Atavin, A. N. Rykov, E. V. Popov, and L. V. Vilkov<br>$r_g$ and $r_e$ molecular structure from GED and quantum chemical studies<br>Manuscript in preparation |
| **$C_3H_7BrSi$**<br>$C_3H_7BrSi$ | **1-Bromosilacyclobutane**<br>V. P. Novikov, M. Dakkouri, H. Oberhammer and L. V. Vilkov<br>Molecular structure and coformational equilibrium by GED and *ab initio* calculations<br>Manuscript in preparation |
| **$C_4H_4ClNO_2$** | **N-Chlorosuccinimide**<br>Yu. V. Vishnevskiy, N. Vogt, V. I. Korepanov, A. A. Ivanov, L. V. Vilkov, V. V. Kuznetsov, N. N. Mahova<br>$r_e$ equilibrium geometry from GED and quantum chemical studies<br>Struct. Chem. (in press) |
| **$C_4H_4N_2$** | **1,5-Diazabicyclo[3.1.0]hexane**<br>Y. V. Vishnevskiy, N. Vogt, J. Vogt, A. N. Rykov, V. V. Kuznetsov, N. N. Makhova, L. V. Vilkov<br>Molecular structure by gas electron diffraction and quantum-chemical calculations<br>J. Phys. Chem. A **112** (2008), 5243-5250 |
| **$C_5H_6N_2O_2$** | **Thymine**<br>N. Vogt, L. S. Khaikin, O. E. Grikina, A. N. Rykov, J. Vogt<br>Equilibrium structure from joint analysis of gas-phase electron |

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| | diffraction and microwave data and assignment of vibrational spectra using results of *ab initio* calculations<br>J. Phys. Chem. A **112** (33) (2008), 7662-7670 |
| **$C_5H_7NO_2$** | **N-Methylsuccinimide**<br>N. Vogt, Yu. V. Vishnevskiy, A. A. Ivanov, J. Vogt, L. V. Vilkov<br>$r_e$ equilibrium geometry from GED and quantum chemical studies<br>Zh. Fiz. Khim. **82** (13) (2008), 122-128 |
| **$C_6H_3F_2NO_2$** | **3,5-Difluoronitrobenzene**<br>O. A. Dorofeeva, A. V. Ferenets, N. M. Karasev, L. V. Vilkov, H. Oberhammer<br>Molecular structure, conformations, and potential to internal rotation by gas-phase electron diffraction and quantum chemical calculations<br>J. Phys. Chem. A **112** (2008), 5002-5009 |
| **$C_6H_3F_2NO_2$** | **2,6-Difluoronitrobenzene**<br>O. A. Dorofeeva, A. V. Ferenets, N. M. Karasev, L. V. Vilkov, H. Oberhammer<br>Molecular structure, conformations, and potential to internal rotation by gas-phase electron diffraction and quantum chemical calculations<br>J. Phys. Chem. A **112** (2008), 5002-5009 |
| **$C_7H_5F_3S$**<br>$C_6H_5SCF_3$ | **(Trifluoromethyl)thiobenzene**<br>I. F. Shishkov, L. V. Khristenko, A. N. Rykov, L. V. Vilkov, N. I. Giricheva, S. A. Shlykov, G. V. Girichev, H. Oberhammer.<br>Structure and conformation by gas electron diffraction and quantum chemical calculations<br>J. Mol. Struct. **876** (2008), 147–153 |
| **$C_7H_8S$**<br>$C_6H_5SCH_3$ | **Thioanisole**<br>I. F. Shishkov, L. V. Khristenko, N. M. Karasev, L. V. Vilkov, H. Oberhammer<br>Structure and conformation by gas electron diffraction and contradicting quantum chemical calculations<br>J. Mol. Struct. **873** (2008), 137–141 |