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$C_2H_5NO_2$	**Nitroethane** Equilibrium structure and internal rotation from GED and QC *I. F. Shishkov, V. A. Sipachev, P. I. Dem'yanov, O. V. Dorofeeva, N. Vogt, Yu. V. Vishnevskiy, and L. V. Vilkov* J. Mol. Struct. , in press
$C_3H_6O_3$ HOH_2C-CHOH-CHO	**Glyceraldehyde** Equilibrium structure from GED and QC, relative stability of conformers from QC *N. Vogt, E. G. Atavin, A. N. Rykov, E. V. Popov, and L. V. Vilkov* J. Mol. Struct. **936** (2009) 125-131
$C_4H_2O_3$ $C_2H_2(CO)_2O$	**Maleic anhydride** Equilibrium structure from GED+MW and QC (preliminary data) *E. P. Altova, N. Vogt,and N. Karasev* HRMS, 21st Colloquium, Castellamare di Stabia, Italy, 2009, P044.
$C_4H_2O_3$ $C_2H_2(CO)_2O$	**Maleic anhydride** Equilibrium structure from GED+MW and QC *N. Vogt, E. P. Altova, and N. Karasev* J. Mol. Struct., in press
C_4H_4ClN	**N-Chlorosuccinimide** The equilibrium structure from GED and QC *Yu. V. Vishnevskiy, N. Vogt, V. I. Korepanov, A. A. Ivanov, L. V. Vilkov, V. V. Kuznetsov, and N. N. Mahova* Struct. Chem. **20** (2009) 435-442
$C_4H_4O_4$ HOOCCHCHCOOH	**Fumaric acid** Equilibrium structure and conformational composition of succinic acid from GED and QC *N. Vogt, M. Abaev, N.M. Karasev* manuscript in preparation
$C_4H_5NO_2$	**2,5-Pyrrolidinedione (Succinimide)** Equilibrium structure and flexibility of the saturated five-membered ring from GED and QC with use of spectroscopic data *N. Vogt, L. S. Khaikin, O. E. Grikina, N. M. Karasev, J. Vogt, and L. V. Vilkov* J. Phys. Chem. A **113** (2009) 931-937
$C_4H_6O_4$	**Succinic acid** Structure from QC and preliminary GED data

$HOOCCH_2CH_2COOH$	*M. Abaev, N. Vogt, I.F. Shishkov, J. Vogt, A.N. Rykov, L.V. Vilkov, H. Oberhammer* 23rd Austin Symp.Mol.Struct.Dynamics, Austin, 2010, p.22
$C_4H_6O_4$ $HOOCCH_2CH_2COOH$	**Succinic acid** Equilibrium structure and conformational composition from GED and QC *N. Vogt, M. Abaev, I. F. Shishkov , A.N. Rykov,* Manuscript in preparation
C_4H_9OP $(CH_3)_2POCH_3$	**Acetyldimethylphosphine** Quantum chemical and electron diffraction study of molecular structure of formylphosphine and acetyldimethylphosphine. *L. S. Khaikin, O. E. Grikina, N. F. Stepanov* Zh. Fiz. Khim. (Russ. J. Phys. Chem.) (2010) accepted to publication
$C_5H_5N_5$	**9H-Adenine** Equlibrium structure from GED and QC *N. Vogt, O. Dorofeeva, V. A. Sipachev, and A. N. Rykov* J. Phys. Chem. A **113** (2009) 13816-13823
$C_5H_{12}N_4O_2$ $H_2NNHNHNO_2$	**1,1,3,3-Tetramethyl-2-nitroguanidine** The geometry of nitroguanyl fragment of simplest derivatives of nitroguanidine in the absence of intermolecular interactions. Gas phase electron diffraction study of 1,1,3,3-tetramethyl-2-nitroguanidine. *L. S. Khaikin, O. E. Grikina, G. V. Girichev, A. Kovacs, K. P. Dyugaev, A. M. Astachov* Dokl. Akad. Nauk. (Dokl. Phys. Chem.) submitted
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	Improved procedure of treatment of gas-phase electron diffraction (GED) images (IP) *N. Vogt, R. Rudert, J. Vogt, A. N. Rykov, N. M. Karasev, I. F. Shishkov, J. Crassous* HRMS, 21st Colloquium, Castellamare di Stabia, Italy, 2009
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