

化学熱学実験施設業績リスト (1988)

(Publications from the Chemical Thermodynamics Laboratory)

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- O-1 Atomization Enthalpies of Aliphatic Compounds with Alternately Adjacent Carbonyl Groups and Nitrogen Atoms
M. Sakiyama, N. Kuriyama, A. Imamura and S. Murata, *Bull. Chem. Soc. Jpn.* **61**, 615–620 (1988).
- O-2 Incommensurate Phase Transitions and Anomalous Lattice Heat Capacities of Biphenyl
K. Saito, T. Atake and H. Chihara, *Bull. Chem. Soc. Jpn.* **61**, 679–688 (1988).
- O-3 Calorimetric and Dielectric Studies of Phase Transitions in Rubidium Nitrite
K. Moriya, T. Matsuo and H. Suga, *Bull. Chem. Soc. Jpn.* **61**, 1911–1916 (1988).
- O-4 Thermodynamic Studies on Order-disorder Phase Transitions of *p*-Terphenyl and *p*-Terphenyl- d_{14}
K. Saito, T. Atake and H. Chihara, *Bull. Chem. Soc. Jpn.* **61**, 2327–2336 (1988).
- O-5 Molar Entropies at 80 K of Sub-monolayer Nitrogen Films Adsorbed on Graphite from Heat Capacity Measurement
A. Inaba and H. Chihara, *Can. J. Chem.* **66**, 703–705 (1988).
- O-6 Static and Dynamic Properties of Hydrogen Sulphide in Hydroquinone Clathrates
H. Ukegawa, T. Matsuo, H. Suga, A. J. Leadbetter, R. C. Ward and J. W. Clark, *Can. J. Chem.* **66**, 943–954 (1988).
- O-7 Complete Dipolar Ordering in Solid Overlayer of CO Physisorbed on Graphite Basal Plane: Heat Capacity Measurement
A. Inaba, T. Shirakami and H. Chihara, *Chem. Phys. Lett.* **146**, 63–66 (1988).
- O-8 Combustion and Sublimation Calorimetric Studies on Acetylurea and Trimethyl Isocyanurate
A. Imamura, S. Murata and M. Sakiyama, *J. Chem. Thermodyn.* **20**, 389–396 (1988).
- O-9 Standard Enthalpy of Formation of $[\text{Ni}(\text{NH}_3)_6]\text{Cl}_2$ (cr) as Determined by Solution-reaction Calorimetry

N. Kuriyama and M. Sakiyama, *J. Chem. Thermodyn.* **20**, 729–733 (1988).

- O–10 Calorimetric and Dielectric Studies of Phase Transitions in Ammonium Nitrite
K. Moriya, T. Matsuo and H. Suga, *J. Chem. Thermodyn.* **20**, 913–922 (1988).
- O–11 Standard Enthalpies of Formation of Beryllium Acetylacetonate(cr) in Its Stable and Metastable States, Beryllium Oxypropionate(cr), and Beryllium Oxynitrate(cr)
S. Murata, M. Sakiyama and S. Seki, *J. Chem. Thermodyn.* **20**, 1203–1209 (1988).
- O–12 A Calorimetric Study of the Short Hydrogen-bond System. Heat Capacities of Potassium Hydrogen Maleate and Potassium Hydrogen Fumarate
M. Fukai, T. Matsuo and H. Suga, *J. Chem. Thermodyn.* **20**, 1337–1347 (1988).
- O–13 Calorimetric Study on Pure and KOH-doped Argon Clathrate Hydrates
O. Yamamuro, M. Oguni, T. Matsuo and H. Suga, *J. Incl. Phenom.* **6**, 307–318 (1988).
- O–14 Construction of an Adiabatic Calorimeter for a Vapor-deposited Sample and Thermal Characterization of Amorphous Butyronitrile
H. Hikawa, M. Oguni and H. Suga, *J. Non-cryst. Solids* **101**, 90–100 (1988).
- O–15 Thermochemical Study of Tetramethyl- and Tetraethylammonium Halides: Nonionic Cohesive Energies in the Crystals and Hydration Enthalpies of the Cations
Y. Nagano, M. Sakiyama, T. Fujiwara and Y. Kondo, *J. Phys. Chem.* **92**, 5823–5827 (1988).
- O–16 Calorimetric Study of the Phase Transition in Deuterated Methylammonium Hexachlorostannate
T. Matsuo, H.-K. Yan and H. Suga, *J. Phys. Chem. Solids* **49**, 85–90 (1988).
- O–17 Calorimetric Study of Pure and KOH-doped Tetrahydrofuran Clathrate Hydrate
O. Yamamuro, M. Oguni, T. Matsuo and H. Suga, *J. Phys. Chem. Solids* **49**, 425–434 (1988).
- O–18 Cluster Pairing in the Paramagnetic Trinuclear Complex Compound.
[Cr₃O (CH₃COO)₆ (H₂O)₃] Cl•6H₂O: Calorimetric Study at Very Low Temperatures
M. Nakano, T. Wakamatsu, M. Sorai and H. Suga, *J. Phys. Chem. Solids* **49**, 987–992 (1988).
- O–19 Calorimetric Study of Order-disorder and Martensitic Phase Transition in Methylammonium Hexachlorotellurate
N. Onoda, T. Matsuo and H. Suga, *Phil. Mag.* **A57**, 245–260 (1988).

- O-20 Calorimetric, Thermoanalytical and Dielectric Studies of Phase Transitions in Ammonium Nitrite
K. Moriya, T. Matsuo, and H. Suga, *Solid State Commun.* **66**, 533–535 (1988).
- O-21 Heat Capacity Measurements under High Pressure.
O. Yamamuro, M. Oguni, T. Matsuo and H. Suga, *Thermochim. Acta* **123**, 73–83 (1988).
- O-22 Construction and Testing of a Gas-solid Reaction Calorimetry System Using a Tian-Calvet Microcalorimeter
N. Kuriyama and M. Sakiyama, *Thermochim. Acta* **132**, 75–87 (1988).
- O-23 Thermodynamic Properties of Alkali and Thallium Nitrites: The Ionic Plastically Crystalline State
K. Moriya, T. Matsuo and H. Suga, *Thermochim. Acta* **132**, 133–140 (1988).
- R* - 1 混合原子価錯体における分子内電子移動に基づく相転移
徂徠道夫, 化学, **43**, 770–771 (1988).
[Phase Transitions Arising from Intramolecular Electron-transfer in Mixed-valence Complexes. M. Sorai, *Kagaku (Chemistry)* **43**, 770–771 (1988).]
- R* - 2 スピントロソオーバー錯体および混合原子価錯体の熱的性質
徂徠道夫, 季刊化学総説, No. 3, [珍しい原子価状態: 異常原子価から超伝導まで]
日本化学会編, 学会出版センター, 191–200 (1988).
[Thermal Properties of Complexes Showing Spin-crossover and Mixed-valence Phenomena. M. Sorai, *Kikan Kagaku Sosetsu* No. 3, edited by The Chemical Society of Japan, Gakkai Shuppan Center, 191–200 (1988).]
- R - 3 Interplay of Calorimetry and Thermal Analysis
H. Suga, *Thermochim. Acta* **135**, 31–36 (1988).
- R* - 4 包接水和物における水素結合系の秩序化
山室 修, 大阪大学低温センターだより, No. 61, 18–21 (1988).
[Proton Ordering in Hydrogen-bonded System of Clathrate Hydrate.
O. Yamamuro, *Osaka Daigaku Teion Senta Dayori*, No. 61, 18–21 (1988).]
- B - 1 Glassy Crystals
H. Suga and S. Seki, Encyclopedia of Materials Science and Engineering, Supplementary Vol. I, Pergamon Press, 190–192 (1988).