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**M. Topić and  
A. Mogaš-  
-Milanković**

**A Multiple Thermal Analysis of Ammonium Heptamolybdate Tetrahydrate**

Crystalline powder of ammonium heptamolybdate tetrahydrate was studied by use of thermally stimulated charge, differential thermal analysis, permittivity and dielectric loss measurements in the range from 113 K to 300 K . . . .

75—83

**A. Julg and  
B. Deprick**

**Theoretical Study of Adsorption of Carbonyl Compounds on Ionic Crystals: I. Formaldehyde, Glyoxal, *o*- and *p*-Benzoquinone on the (100) Face of Sodium Chloride**

The electronic adsorption energy is evaluated by means of »ab-initio« SCF method and the dispersion energy by means of a semi-empirical Lennard-Jones pair potential. The total adsorption energies are equal to 2.3 kcal/mol for the formaldehyde along the {0, 1, 0} direction above Cl<sup>-</sup>, and to 4.6, 7.3 and 7.6 kcal/mol respectively for the glyoxal and *p*- and *o*-benzoquinone along the {0, 1, 1} direction above an anion allignment . . . .

85—92

**Đ. Težak,  
F. Strajnar,  
D. Šarčević,  
O. Milat, and  
M. Stubičar**

**Solid/Liquid Equilibria in Aqueous Systems of Dodecyl Benzene Sulphonate and Alkaline Earth Ions**

Solubility/precipitability boundaries and the morphology of solid phases were investigated and equilibria constants calculated for Mg, Ca, Sr, Ba — dodecyl benzene sulphonate salts by methods of tyndallometry, polarizing microscopy and X-ray diffraction at 293 K. The solubility of M(DBS)<sub>2</sub> salts decreased in the order Mg > Ca > Sr > Ba . . . .

93—107

**S. K. Dua,  
V. Kapur, and  
S. K. Sahni**

**Titanyl(IV), Zirconyl(IV), Hafnyl(IV) and Uranyl(VI) Complexes of Terdentate Benzoyl Hydrazones**

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Lj. Tušek-Božić  
and B. Božić

**Conductance Study of Ion-Pairing of Alkali Picrate and Tetraphenylborate Complexes with Some Macrocyclic Polyethers in Methanol**

The conductance of dibenzo-18-crown-6, bis (3,5-di-tert-butylbenzo)-18-crown-6 and dibenzo-24-crown-8 complexes with sodium and potassium picrates and tetraphenylborates was investigated in methanol at 25 °C. The limiting conductance and ion-pair dissociation constants were calculated from Shedlovsky plots . . . . .

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D. D. Lasič, M. E. Marcondes Helene, L. W. Reeves and M. Szarka

**Micelle Forms in Lyotropic Nematics and Cholesterics**

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B. Kamenar, M. Penavić, and A. Hergold-Brundić

**The Crystal Structure of Phenylmercury(II) Trifluoroacetate and the Refinement of the Crystal Structure of Phenylmercury(II) Acetate**

The structures were redetermined by the heavy-atom method using diffractometer X-ray diffraction data and refined by the least-squares procedure. Both compounds have essentially the same molecular structure: characteristic coordination of mercury is diagonal with almost collinear C-Hg-O bonds . . . . .

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M. Lovrić, T. Magjer, and M. Branica

**Electrochemical Kinetic Measurements and Metal Speciation with the Vibrating Dropping Mercury Electrode**

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J. Kobe,  
Z. Crnjak and  
J. Kidrič

**Complex Formation Between the Anti-viral Nucleoside Ribavirin (1- $\beta$ -D-Ribofuranosyl-1, 2, 4-Triazole-3-Carboxamide) and Bivalent Metal Ions:  $^1\text{H}$  and  $^{13}\text{C}$  NMR Studies, and Comparison with Inosine**

The interactions of metal chlorides of groups IIa and IIb with ribavirin and inosine were studied in DMSO- $d_6$  using  $^1\text{H}$  and  $^{13}\text{C}$  NMR methods. The composition of complexes was determined as 1 : 1 and the formation constants of 1 : 1  $\text{Me}^{2+}$ -ribavirin and  $\text{Me}^{2+}$ -inosine complexes in equilibrium were evaluated . . .

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M. Ladika and  
D. E. Sunko

**Allylic Cations in Solvolysis. A Case of Non-Participation**

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V. Škarić and  
D. Škarić

**Novel Syntheses of Thiazolo[3,2-*a*]pyrimidin-7-ones**

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