

Collect. Czech. Chem. Commun.

2000, 65, 1387–1393

**Correlation, Relativistic and Adiabatic Corrections to the Ground State Potential Curve of the Hydrogen Molecule**

- Hydrogen molecule
- Relativistic corrections
- Adiabatic corrections

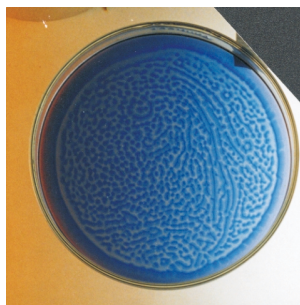
Ján Micanko, Stanislav Biskupič  
and Martina Bittererová

Collect. Czech. Chem. Commun.

2000, 65, 1394–1402

**Pattern Formation in the Methylene Blue–Fructose–Oxygen System in Aqueous Solution and in Gel Systems**

Ľubica Adamčíková, Mária Hupková  
and Peter Ševčík

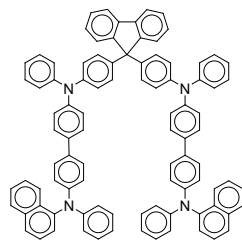


Collect. Czech. Chem. Commun.

2000, 65, 1403–1418

**Anodic Oxidation of Novel Hole-Transporting Materials Derived from Tetraarylbenzidines. Electrochemical and Spectroscopic Characterization**

René Fáber, G. Felix Mielke, Peter Rapta,  
Andrej Staško and Oskar Nuyken



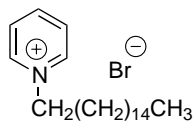
F-1αNPD  $\rightleftharpoons$  F-1αNPD<sup>⊕</sup>  $\rightleftharpoons$  F-1αNPD<sup>2⊕</sup>

Collect. Czech. Chem. Commun.

2000, 65, 1419–1437

**Thermodynamics of Micellization of Hexadecylpyridinium Bromide in Aqueous and Alcoholic (C<sub>1</sub>–C<sub>4</sub>) Solutions**

Jarmila Oremusová, Olga Greksáková  
and Karel Peterek



Collect. Czech. Chem. Commun.  
2000, 65, 1438–1442

Gravity Effect on the Formation  
of Periodic Precipitation Patterns

●  $\text{Ag}_2\text{Cr}_2\text{O}_7$ , gelatin

●  $\text{PbI}_2$ , agar

Vladislav Holba and Frederik Fusek

Collect. Czech. Chem. Commun.  
2000, 65, 1443–1454

Calculation of Chemical Equilibrium  
in Complex Systems: System Restrictions

$$\min G; \quad G = \sum_{i=1}^N n_i \mu_i$$

Petr Voňka and Jindřich Leitner

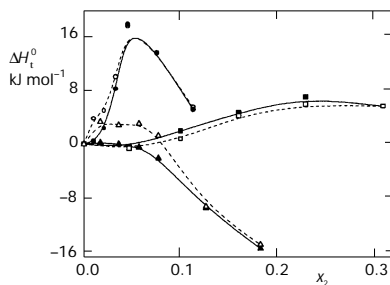
$$\sum_{i=1}^N a_{ji} n_i = b_j$$

$$n_i \geq 0;$$

Collect. Czech. Chem. Commun.  
2000, 65, 1455–1463

Transfer Thermodynamic Functions  
 $\Delta G_i^0$ ,  $\Delta H_i^0$  and  $T\Delta S_i^0$  of *cis*- and  
*trans*- $[\text{CoCl}_2(\text{en})_2]^+$  Isomers in Aqueous  
Mixtures of Methanol, *tert*-Butyl Alcohol  
and Acetonitrile

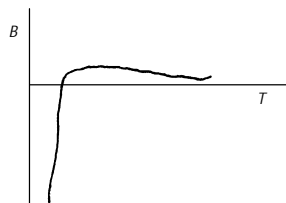
Oľga Vollárová and Ján Benko



Collect. Czech. Chem. Commun.  
2000, 65, 1464–1470

The Bender Equation of State  
and Virial Coefficients

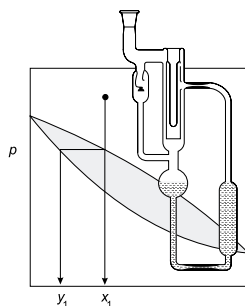
Anatol Malijevský and Tomáš Hujo



Collect. Czech. Chem. Commun.  
**2000**, *65*, 1471–1486

**Phase Equilibria in 4-Methylpentan-2-one–Water  
 and 4-Methylpentan-2-one–4-Methylpentan-2-ol  
 Systems and Their Thermodynamic Description**

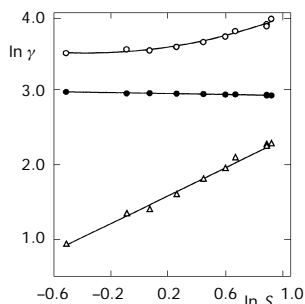
Karel Řehák, Jaroslav Matouš,  
 Josef P. Novák and Andreas Heintz



Collect. Czech. Chem. Commun.  
**2000**, *65*, 1487–1496

**Surface and Interfacial Tensions Along  
 the Binodal Curve in the  
*tert*-Butyl Methyl Ether–Water–Alcohol  
 Ternary Systems at 25 °C**

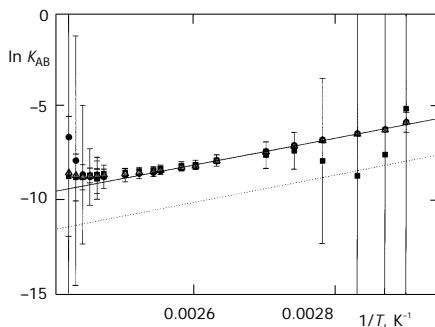
Lidmila Bartovská, Markéta Čechová,  
 Jaroslav Matouš and Josef P. Novák



Collect. Czech. Chem. Commun.  
**2000**, *65*, 1497–1505

**Evaluation of Heterodimerization  
 Constant from Solid–Liquid and  
 Vapor–Liquid Equilibrium Data**

Ivona Malijevská



Collect. Czech. Chem. Commun.  
**2000**, *65*, 1506–1514

**Interaction of ZnO with ZSM-5 Zeolites**

Edita Rojasová, Agáta Smiešková,  
 Pavol Hudec and Zdenek Židek

ZSM-5 zeolite  
 ZnO

Collect. Czech. Chem. Commun.

2000, 65, 1515–1526

**Transfer of Charge in a Particulate  
Iron–Electrolyte System**

Miroslav F. Gál, Miriam Gálová  
and Andrea Turoňová

- Fe powder suspension
- Charge transfer
- Electrolysis

Collect. Czech. Chem. Commun.

2000, 65, 1527–1536

**Catalytic Properties of a Heated  
Ammonium-Saturated  
Dioctahedral Smectite**

Ľuboš Jankovič and Peter Komadel

