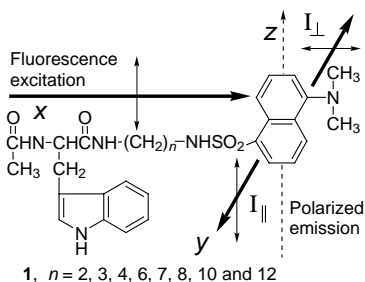


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1999, 64, 1369–1384

### Fluorescence Anisotropy and Mobility of Dansyl Fluorophore in Labelled Homologous Alkanes

Drahomír Výprachtický, Veronika Pokorná,  
Jan Pecka and František Mikeš

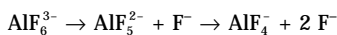


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1999, 64, 1385–1392

### Solvation Effects of Complex Anions in Cryolite Melt

Štefan Varga, Pavel Mach  
and Ladislav Turi Nagy



calculation of:

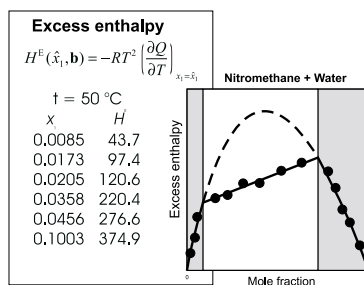
- solvation energies
- equilibrium constants in melt

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1999, 64, 1393–1411

### Excess Enthalpy in the Systems Nitromethane–Water and Methyl *tert*-Butyl Ether–Water. Employing Data on Excess Enthalpy for Thermodynamic Description of Heterogeneous Systems

Karel Řehák, Josef P. Novák, Jana Konečná,  
Andreas Heintz, Petr Voňka and Jaroslav Matouš



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1999, 64, 1412–1418

### Bacteria-Based Sensor for Monitoring Glycerol

Zhi H. Liu, Meng L. Wen, Yun Yao, Nan H. Shi,  
Shi Q. Liu and Ming Qiao

A new bacteria-based sensor for determination of glycerol was reported, in which mutant bacteria induced from the strain of *Bacillus subtilis* AS 1.398 was used as a biocatalyst.

Collect. Czech. Chem. Commun.

1999, 64, 1419–1432

**Linear Heptapeptides Containing  
DNA-Intercalators. Synthesis and  
Interaction with DNA**

Zbyněk Matušína, Radomíra Olbřímková,  
Hana Votavová, Josef Neumann,  
Martin Hradilek, Milan Souček,  
Petr Maloň, Milan Kodíček and Ivan Stibor

X-Ser-Pro-Thr-Ser-Pro-Ser-Y

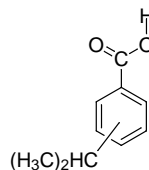
X = Tyr, quinoxaline-2-carbonyl, acridine-9-carbonyl-,  
Y = Tyr, -(quinoxaline-2-yl)amino-)

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1999, 64, 1433–1447

**Steric Effects and Steric Inhibition of Resonance  
in Isopropylbenzoic Acids in the Gas Phase  
and in Solution**

Pavel Fiedler, Jiří Kulhánek, Michèle Decouzon,  
Jean-François Gal, Pierre-Charles Maria  
and Otto Exner

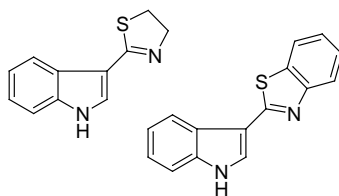


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1999, 64, 1448–1456

**Application of 2-Substituted Ethyl  
Isothiocyanates and 2-Aminothiols  
in the Synthesis of the Analogs  
of Indole Phytoalexin Camalexin**

Milan Dzurilla, Martin Ružinský,  
Peter Kutschy, Jalpa P. Tewari  
and Vladimír Kováčik

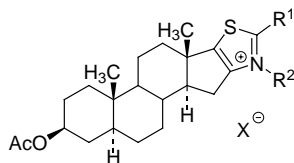


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1999, 64, 1457–1470

**Fused Thiazoloandrostanes and Their Quaternary  
Salts, Synthesis and Cooperative Ligand Binding  
to Muscarinic Acetylcholine Receptor**

Marek Urbanský, Jan Proška and Pavel Drašar

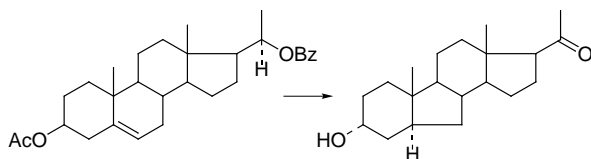


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1999, 64, 1471–1478

**Epalons: Synthesis of 7-Norallopregnanolone**

Alexander Kasal

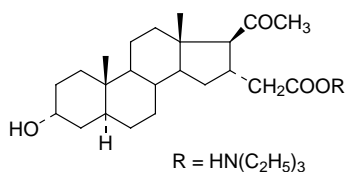


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1999, 64, 1479–1484

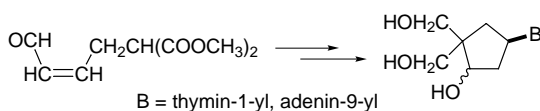
**Epalons: Synthesis of New 16 $\alpha$ -Carboxymethyl Derivatives**

Barbora Slavíková and Alexander Kasal



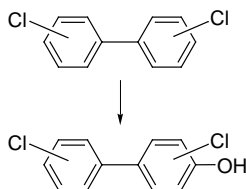
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1999, 64, 1485–1496

**Synthesis of Carba Analogues of 2'-Deoxy-4'-C-(hydroxymethyl)nucleosides**Hubert Hřebabecký  
and Antonín Holý

Collect. Czech. Chem. Commun.

1999, 64, 1497–1509

**Correlation of PCB Transformation by Plant Tissue Cultures with Their Morphology and Peroxidase Activity Changes**Petra Kučerová, Martina Macková,  
Ludmila Poláčková, Jiří Burkhard,  
Kateřina Demnerová, Jarmila Pazlarová  
and Tomáš Macek

Collect. Czech. Chem. Commun.  
**1999, 64**, 1510–1516

**Chicken Pituitary Glycoproteins:  
 New Isolation Method**

Helena Ryšlavá, Jana Krešlová,  
 Jana Barthová and Tomislav Barth

- Affinity chromatography
- Ion-exchange HPLC
- Reverse phase HPLC
- MALDI TOF

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**1999, 64**, 1517–1528

**Removal of Anions from Solution by Calcined  
 Hydrotalcite and Regeneration of Used Sorbent  
 in Repeated Calcination–Rehydration–Anion  
 Exchange Processes**

František Kovanda, Eva Kováčsová  
 and David Koloušek

