

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

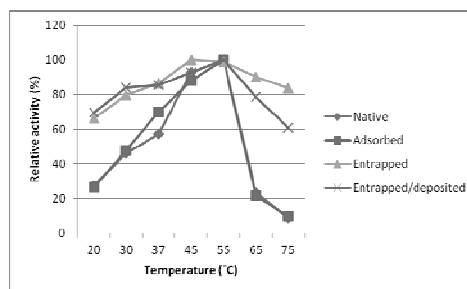
Tome 57, N° 2

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PAPERS

**Monica DRAGOMIRESCU, Gabriela PREDA,
Teodor VINTILĂ, Beatrice VLAD-OROS,
Dospina BORDEAN and Cecilia SAVII**

The effect of immobilization on activity and stability of a protease preparation obtained by an indigenous strain, *Bacillus licheniformis* B 40

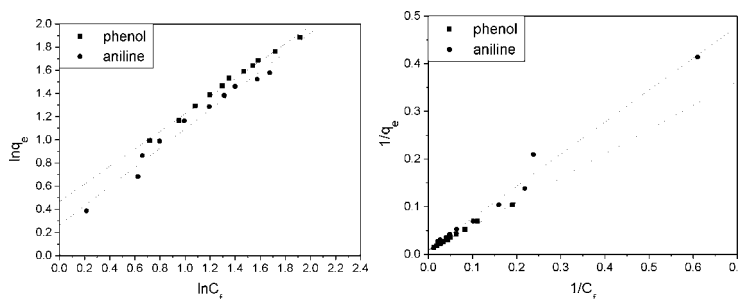


Rev. Roum. Chim., 2012, 57(2), 77-84

Key words: protease, *Bacillus*, immobilization, inorganic support, silica gel, sol-gel.

Loredana Elena VIJAN and Mihaela NEAGU

Adsorption isotherms of phenol and aniline on activated carbon

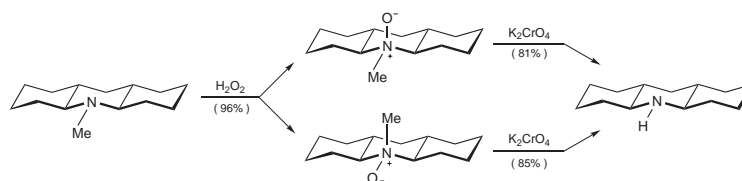


Rev. Roum. Chim., 2012, 57(2), 85-93

Key words: adsorption, activated carbon, phenol, aniline, adsorption isotherm.

**Francisc POTMISCHIL,
Claudiu DOBRINESCU, Alina NICOLESCU
and Călin DELEANU**

Hydroacridines. Part 31. Saturated amine oxides. Part 9. Study of a procedure for *N*-demethylation of saturated azaheterocyclic tertiary *N*-methylamines via their *N*-oxides



Rev. Roum. Chim., 2012, 57(2), 95-99

Key words: tetradecahydroacridines, amine oxides, *N*-demethylation, nitrogen heterocycles, stereochemistry.

**Simona BUNGĂU, Ildiko SZABO,
Gabriela Elena BADEA and
Alexandrina FODOR**

Biotin determination by using a kinetic method

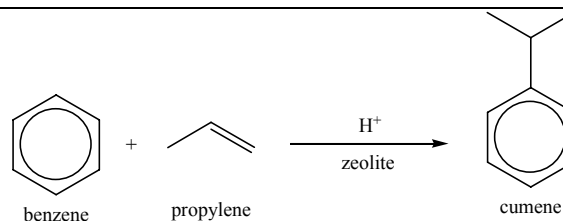
$$X = \frac{[BrO_3^-]_0 - [BrO_3^-]_{consumat}}{[BrO_3^-]_0} = \frac{\Delta[BrO_3^-]}{[BrO_3^-]_0} = \frac{[\text{acid p-aminobenzoic}]_0}{[BrO_3^-]_0}$$

Rev. Roum. Chim., 2012, 57(2), 101-106

Key words: biotin, p-aminobenzoic acid, bromate, bromine, Landolt method.

Yogesh K.VYAWAHARE,
Vilas R. CHUMBHALE and
Anand S. ASWAR

Alkylation of benzene to cumene over MOR zeolite catalysts

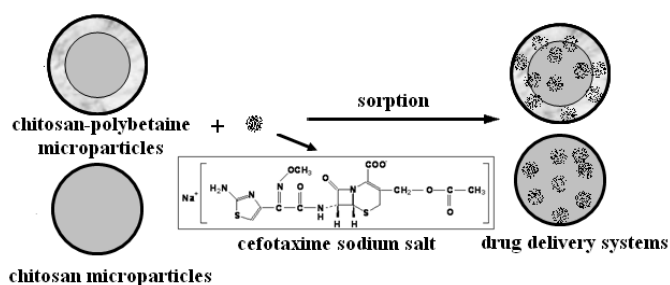


Rev. Roum. Chim., **2012**, 57(2), 107-113

Key words: MOR zeolite, alkylation, cumene, isopropanol, propylene.

Ștefania RACOVIȚĂ, Silvia VASILIU and Marcel POPA

Sorption isotherms and kinetics of cefotaxime sodium salt on chitosan-polybetaine complexes

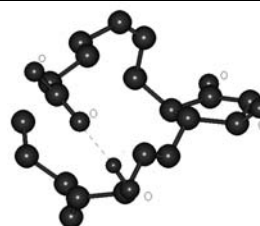


Rev. Roum. Chim., **2012**, 57(2), 115-120

Key words: chitosan, polybetaines, cefotaxime sodium salt, equilibrium isotherms, kinetic characterization.

Daniela MARGAN, Gheorghe ILIA, Ana BOROTA and Mircea MRACEC

Conformational analysis for prostaglandin E2. I

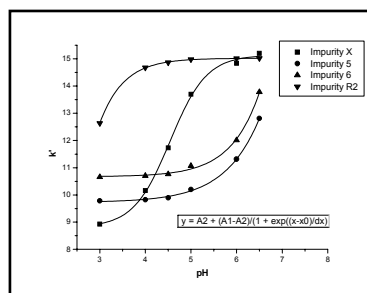


Rev. Roum. Chim., **2012**, 57(2), 121-129

Key words: conformational analysis, PM3, PGE2 (dinprostone), EP prostanoid receptors, ligand-receptor interaction.

Toma GALAON and Victor DAVID

The influence of mobile phase pH on the retention and selectivity of related basic compounds in reversed-phase liquid chromatography

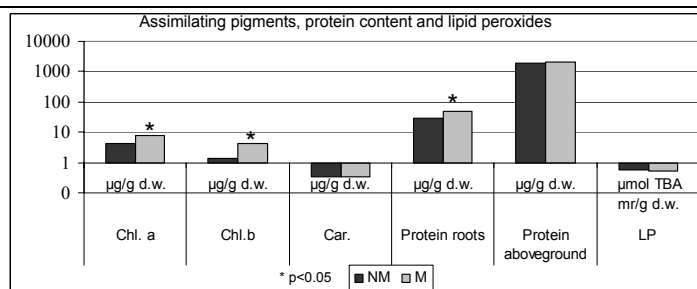


Rev. Roum. Chim., **2012**, 57(2), 131-140

Key words: pH, reversed-phase mechanism, basic compounds, selectivity, modeling.

Adinuța PĂUN, Aurora NEAGOE and Ion BACIU

The role of fungi on alleviating the stress induced by heavy metals uptake in rye plants (*Secale cereale* L.) cultivated in soil from a Roumanian industrial area

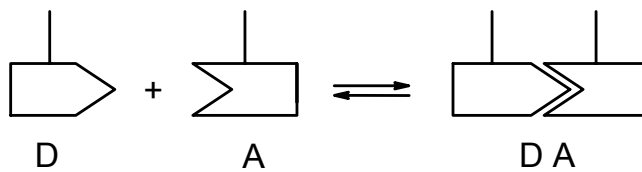


Rev. Roum. Chim., **2012**, 57(2), 141-150

Key words: *Glomus intraradices*, heavy metals, phytostabilization, phytoextraction, *Secale cereale* L.

Virgil BARBOIU,
Anca Giorgiana GRIGORAS,
Vasile Cristian GRIGORAS and
Gabriela Liliana AILIESEI

Some characteristics specific to copolymers
containing donor and acceptor side groups



Key words: donor-acceptor copolymers, association constant,
donor-acceptor interaction effects in molecular spectra,
T_g vs. polymer composition.

Rev. Roum. Chim., 2012, 57(2), 151-157
