

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

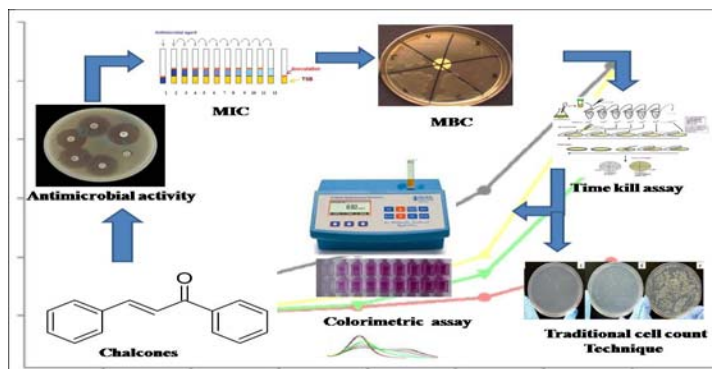
Tome 63, N° 3

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## PAPERS

Sunnapu PRASAD, Saleshier M. FRANCIS,  
S. KRISHNAN and P. BHARATHI

Synthesis, spectroscopic studies, antibacterial activity of chalcones and colorimetric evaluation of the time-killing assay for newly synthesized chalcones using resazurin

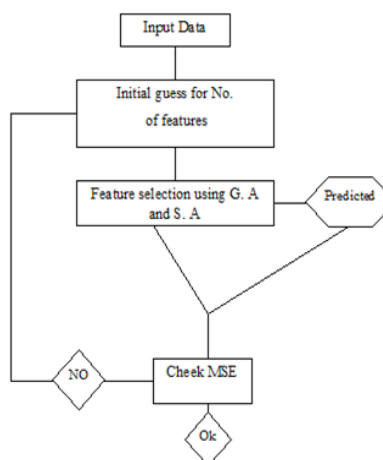


**Key words:** chalcones, Time-Killing Assay, colorimetry assay, resazurin, pharmacokinetic profile.

Rev. Roum. Chim., 2018, 63(3), 161-169

Robabeh SAYYADIKORDABADI and  
Asghar ALIZADEHDAKHEL

Feature extraction using linear and nonlinear QSAR study on several taxol derivatives as anticancer drugs

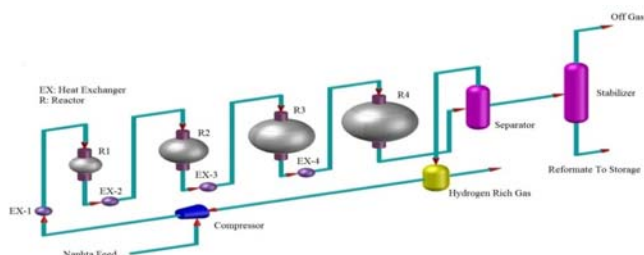


Rev. Roum. Chim., 2018, 63(3), 171-180

**Key words:** paclitaxel, antitumor drugs, QSAR, genetic algorithm.

Tayeb Fakhreddine BOUKEZOULA,  
Lahcene BENCHEIKH and Meriem CHENOUF

Industrial analysis of catalytic reforming reactors

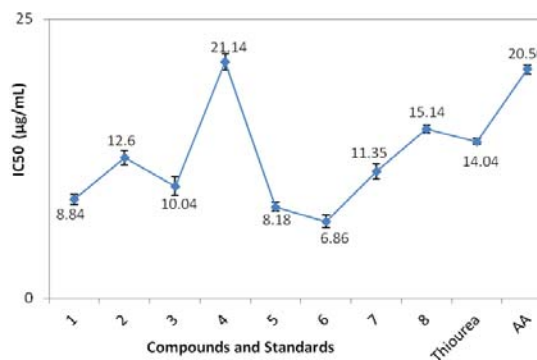
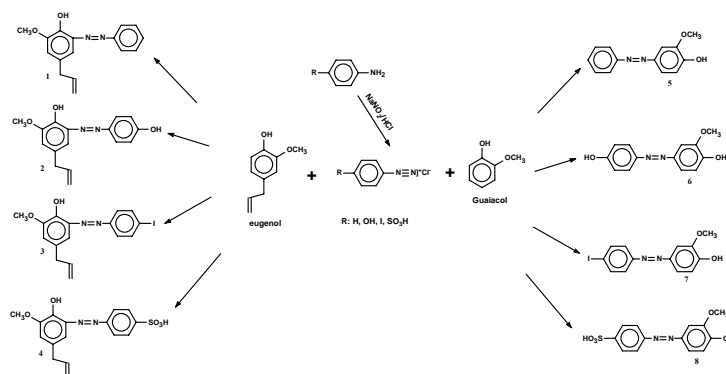


Rev. Roum. Chim., 2018, 63(3), 181-187

**Key words:** catalytic reforming, octane number, bifunctional catalyst, activity, selectivity.

**Cihan KANTAR, Nimet BALTAŞ,  
Şengül Alpay KARAOĞLU and Selami ŞAŞMAZ**

Some azo dyes containing eugenol and guaiacol synthesis, antioxidant capacity, urease inhibitory properties and anti-*Helicobacter pylori* activity

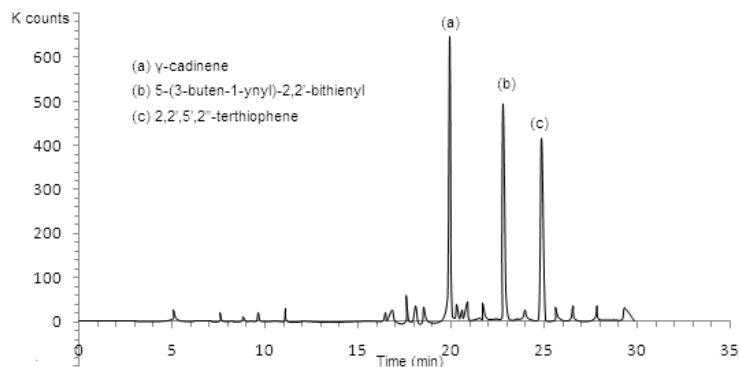


*Rev. Roum. Chim.*, 2018, 63(2), 189-197

**Key words:** azo dyes, urease inhibitory, anti-*Helicobacter pylori*.

**Amira YAHYAOU, Olfa KHEDHER,  
Ghayth RIGANE,  
Ridha BEN SALEM and Younes MOUSSAOUI**

Chemical analysis of essential oil from *Echinops spinosus* L. roots: antimicrobial and antioxidant activities

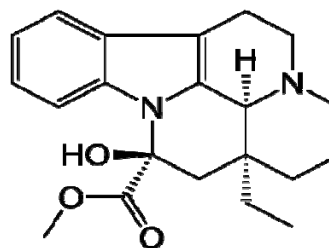


*Rev. Roum. Chim.*, 2018, 63(3), 199-204

**Key words:** *Echinops spinosus*, antimicrobial activity, GC-MS and essential oil.

**Imeda RUBASHVILI,  
Natela KHARUKHNISHVILI and  
Khatuna MAKHARADZE**

Vincamine residues analysis using HPLC and establishing limits of cross-contamination in support of cleaning validation

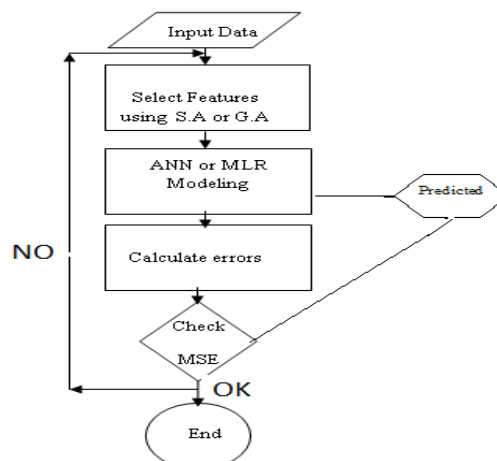


*Rev. Roum. Chim.*, 2018, 63(3), 205-215

**Key words:** vincamine, swab and rinse sampling, HPLC, cleaning validation.

**Robabeh SAYYADIKORDABADI,**  
**Asghar ALIZADEHDAKHEL,**  
**Gholam Reza NAJAFI and**  
**Mehrnaz MASOMPARAST**

QSAR investigation on the feature selection of the letrozole derivatives as anticancer drugs

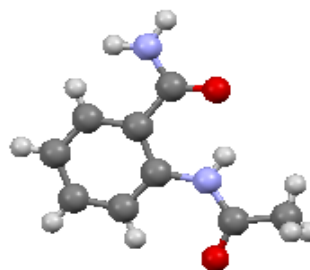


*Rev. Roum. Chim.*, 2018, 63(3), 217-226

**Key words:** letrozole drugs, GA algorithm, QSAR, MLR.

**Muhammad SARFRAZ, Nargis SULTANA,**  
**Muhammad JAMIL and**  
**Muhammad Ilyas TARIQ**

Synthesis, *in silico* study and cholinesterases inhibition activity of 2-substituted 2,3-dihydroquinazolin-4(1H)-one derivatives

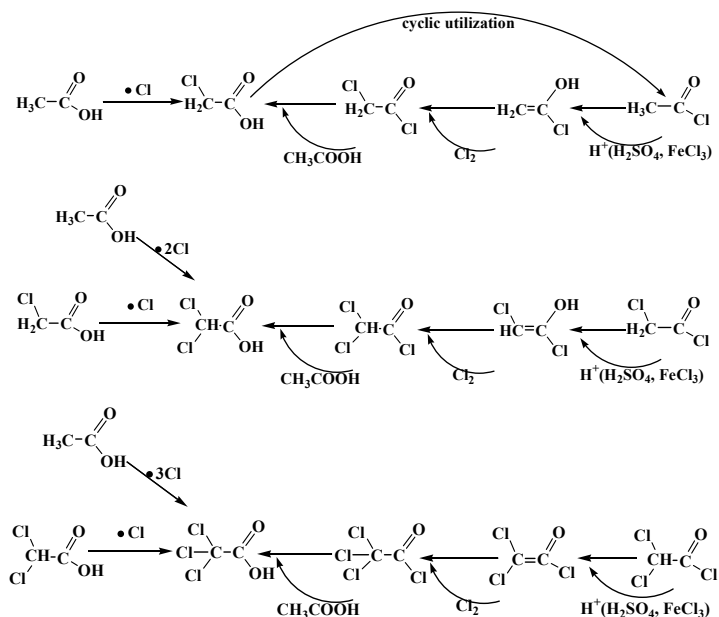


**Key words:** AChE/BChE, cholinesterase inhibitors, Alzheimer's disease, cyclo-condensation.

*Rev. Roum. Chim.*, 2018, 63(3), 227-234

**Jisheng LIU, Xiaoquan CHEN, Da XUE, Xi LIU,**  
**Jianwei XUE, Fuxiang LI and Zhiping LV**

Mechanism of chlorination process: from acetic acid to monochloroacetic acid and byproducts using acetic anhydride as catalyst

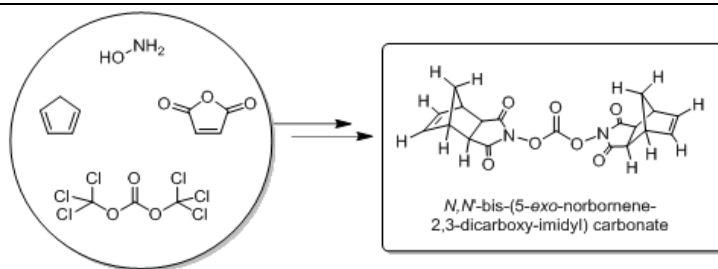


**Key words:** acetic anhydride, monochloroacetic acid, ionic chlorination mechanism, consecutive reaction.

*Rev. Roum. Chim.*, 2018, 63(3), 235-244

Elena MAFTEI, Catalin V. MAFTEI,  
Matthias FREYTAG, M. Heiko FRANZ,  
Thomas BANNENBERG and Ion NEDA

Clarification of stereochemistry aspects for *N*-hydroxy-5-norbornene-2,3-dicarboximide derivatives and elucidation of them by experimental and theoretical investigations, including the synthesis of *N,N*-bis-(5-*exo*-norbornene-2,3-dicarboxyimidyl) carbonate



**Key words:** *N,N'*-bis(5-norbornene-2,3-dicarboxyimidyl) carbonate, *endo/exo*-isomerism, theoretical calculations (DFT), molecular structure, X-ray.