In this issue

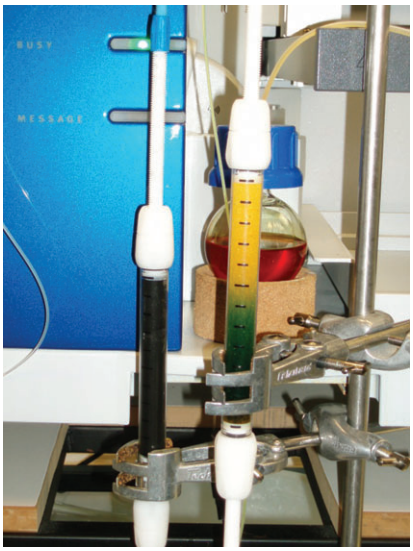
Ian R. Baxendale, Laurens Brocken and Carl J. Mallia

Flow chemistry approaches directed at improving chemical synthesis

DOI 10.1515/gps-2013-0029
Green Process Synth 2013; 2: 211–230

Review: The synthesis of complex molecules in flow using integrated multi-step transformations.

Keywords: automation; flow; meso/micro reactor; solid-supported reagents; synthesis.



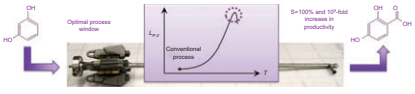
Charline Berguerand, Anne-Laure Dessimoz and Lioubov Kiwi-Minsker

Intensification of slow reversible chemical transformation: carboxylation of resorcinol as a case study

DOI 10.1515/gps-2013-0023
Green Process Synth 2013; 2: 231–237

Original article: Flow chemistry under optimized pressure (P) and temperature (T) as an efficient tool to intensify slow reversible reactions applied for the resorcinol carboxylation.

Keywords: β-resorcylic acid; carbon dioxide fixation; kinetics; new operating window; process intensification.



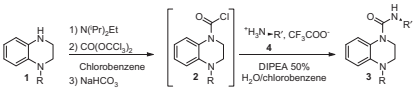
Leo Leroyer, Laurent Prat, Michel Cabassud, Christophe Gourdon, Odile Dechy-Cabaret, Matthieu Barthes, Philippe Camus and Stephane Hattou

Transposition of a triphosgene-based process for pharmaceutical development: from mg·h^{-1} to kg·h^{-1} of an unsymmetrical urea

DOI 10.1515/gps-2013-0026
Green Process Synth 2013; 2: 239–250

Original article: Triphosgene-based process for pharmaceutical development.

Keywords: fast process development; intensification; microreactor; pharmaceuticals; reaction engineering.



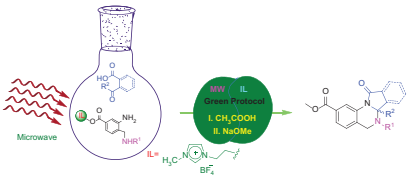
Ramchandra Jedhe, Vijaykumar Paike and Chung-Ming Sun

Rapid synthesis of novel isoindolo[1,2-a]quinazoline on ionic liquid support under microwave irradiation

DOI 10.1515/gps-2013-0025
Green Process Synth 2013; 2: 251–258

Original article: An environmentally friendly and efficient method was developed for one-pot synthesis of bi-heterocyclic fused isoindolo[1,2-a] quinazoline with introduction of ionic liquid as a soluble support and microwave as a greener energy source.

Keywords: ionic liquid support; isoindolo[1,2-a]quinazoline; microwave chemistry; *N*-heterocyclic.



Garima Chauhan, Kamal K. Pant and Krishna D.P. Nigam

Development of green technology for extraction of nickel from spent catalyst and its optimization using response surface methodology

DOI 10.1515/gps-2013-0016
Green Process Synth 2013; 2: 259–271

Original article: The present experimental and statistical optimization study is an effort to develop a greener and cleaner technology for chelant assisted extraction of nickel from spent catalyst.

Keywords: Box-Behnken design; chelation; metal extraction; response surface methodology; spent catalyst.