

Welcome to the **Flow Synthesis Online** newsletter.

This publication is released bi-monthly and will showcase new applications, events, and equipment in the Flow Synthesis world.

Vapourtec sent this email to you because you have in the past expressed an interest in Vapourtec products.

If you do not want to receive future issues of this newsletter, you may unsubscribe now by scrolling to the bottom of this email and clicking on the unsubscribe link. If you think a colleague may be interested, please feel free to forward it.

Articles

Total Flexibility

It is now possible with the Vapourtec R Series system to use an autosampler to feed reagents into sample loops. A sequence of reactions can be queued up for automatic execution, with different reagents fed into each successive reaction, making automated synthesis of compound arrays a reality.

Follow the link below to find out more.

<http://www.vapourtec.co.uk/newsletter/latestissue>

Solid Supported Catalysts

There is an increasing interest in the use of supported catalysts in flow, not least because they are clean and extremely straightforward to use, while giving good selectivity and fast reaction times.

Follow the link below for more information.

<http://www.vapourtec.co.uk/newsletter/latestissue>

Flow Chemistry Publications

5-(Pyrrolidin-2-yl)tetrazole-Catalyzed Aldol and Mannich Reactions: Acceleration and Lower Catalyst Loading in a Continuous-Flow Reactor

Arjan Odedra, Peter H. Seeberger

ETH (Zurich)

Fast aldol and Mannich reactions require less catalyst when conducted in a microreactor. A proline tetrazole derivative (5-10 mol %) catalyzes asymmetric aldol reactions between various aromatic aldehydes and ketones in microreactor at 60 °C with reaction times ranging from 10 to 30 min.

<http://www3.interscience.wiley.com/journal/122261179/abstract>

Direct Uncatalyzed Amination of 2-Chloropyridine Using a Flow Reactor

Bruce C. Hamper, Eden Tesfu

Pfizer Inc., Global Research & Development

Chloropyridines are efficiently converted into 2-aminopyridines by uncatalyzed nucleophilic aromatic substitution (SNAr) in NMP using a continuous-flow reactor. A variety of secondary amines undergo SNAr with both electron-rich and electron-deficient 2-chloropyridines to afford 2-aminopyridines in good to excellent yield. The flow reactor, which provides a short reaction time and high temperatures up to 300 °C, can overcome the activation barrier for reactions with unactivated substrates. Short reaction times result in fewer side products and can afford milligram to multigram quantities of product using continuous flow.

<http://www.thieme-connect.com/ejournals/abstract/synlett/doi/10.1055/s-2007-985574>

Vapourtec now offer Rental Terms

For prospective users who need to prove they can achieve results before committing to an investment, Vapourtec are now offering the facility to rent a Flow Chemistry System.

Follow the link below for more information

<http://www.vapourtec.co.uk/news/rental>

Events

Want to see Vapourtec products in action ? Follow the link below to see a list of events Vapourtec will be attending in the coming months.

<http://www.vapourtec.co.uk/events>

The technical articles above are in PDF form and may be immediately downloaded or read online. No registration is required. Enjoy !

Any 3rd Party publications referred to may require a subscription to download.

About Vapourtec Ltd

Vapourtec develop and manufacture the R Series Flow Chemistry Platform, the leading choice of industrial and academic users worldwide. To find out more about the R Series, or about Flow Chemistry generally, go to

<http://www.vapourtec.co.uk>

If you no longer wish to receive the Vapourtec Flow Synthesis Newsletter, please reply to this message with "Unsubscribe" in the subject line or simply click on the following link: [Unsubscribe](#)

Vapourtec Ltd
Place Farm
Ingham
Suffolk
IP31 1NQ
UK



[Read](#) the VerticalResponse marketing policy.