

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.

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## Articles

### **Copper Catalysed Click Chemistry in Flow**

Introducing the new Vapourtec copper tube reactor, and a recent publication showing the copper catalysed Huisgen Cycloaddition performed in flow.

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

### **5 Things You Can Only Do With Flow**

Ever wondered "What things can I do with flow that I really cannot do in batch ?". Here's your answer. Can you guess all five ?

Click below to read article

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

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## Flow Chemistry Publications

### **Multistep Synthesis Using Modular Flow Reactors: Bestmann-Ohira Reagent for the Formation of Alkynes and Triazoles**

*Ian R. Baxendale, Steven V. Ley, Andrew C. Mansfield, Christopher D. Smith*  
University of Cambridge & Pfizer Global R&D

The Seyferth-Gilbert reagent has been applied in a flow system to rapidly synthesize terminal alkynes. The system has been further applied to synthesize triazole from alcohol in a three-step

oxidation/homologation/copper(I)-catalyzed azide-alkyne cycloaddition sequence without isolation of intermediates.

[Click here to go straight to publication](#)

### **Heck reactions using segmented flow conditions**

*Batoul Ahmed-Omera, David A. Barrow, Thomas Wirth*  
Cardiff University

Various Heck couplings have been carried out using segmented flow conditions to accelerate the reactions. Aryl iodides and aryl bromides as well as anilines in diazonium-type Heck reactions have been used successfully.

[Click here to go straight to publication](#)

### **A Bifurcated Pathway to Thiazoles and Imidazoles Using a Modular Flow Microreactor**

*Ian R. Baxendale, Steven V. Ley, Christopher D. Smith, Lucia Tamborini and Ana-Florina Voica*  
University of Cambridge

A scalable method for the preparation of 4,5-disubstituted thiazoles and imidazoles as distinct regioisomeric products using a modular flow microreactor has been devised. The process makes use of microfluidic reaction chips and packed immobilized-reagent columns to effect bifurcation of the reaction pathway.

[Click here to go straight to publication](#)

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## **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>

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## **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>

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## Want to see previous newsletters ?

If you've only just started receiving the Vapourtec newsletter and you'd like to see what you've missed in earlier issues, simply go to the archive section on the website, using the link below.

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

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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.

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## 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>

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