vapourtec
precision flow chemistry

FULLFLOW

Winter Newsletter

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Welcome to the Winter 2026 issue of FullFlow, the flow chemistry newsletter from Vapourtec, a must-read for all scientists interested in continuous processing applications and technology.
Read on to find out the latest product news, new publications using the Vapourtec flow chemistry systems, and upcoming events.

Product News

Next-Generation Peptide Synthesis — Live Demonstrations

Vapourtec recently delivered a series of online demonstrations, providing a practical overview of automated solid-phase peptide synthesis in flow, including system configuration, workflow, and key performance considerations.
The sessions demonstrated how Fast-Flow synthesis supports high crude peptide purity, enables in-line monitoring during synthesis, and streamlines operation through an open-access, user-friendly interface.

Learn More

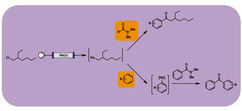
Service and support

Vapourtec systems are engineered to be robust, reliable, and intuitive to operate. However, long-term success in flow chemistry depends on more than hardware alone. Our dedicated Service and Support team works alongside you throughout the lifetime of your equipment - from installation and training to troubleshooting and preventative maintenance. We provide responsive, expert support to help you maximise performance, reliability, and return on investment.

Learn More

Latest News

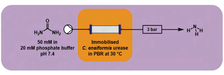
Direct preparation of organosodium from alkyl chloride



The Hilt group (University of Oldenburg) has demonstrated in-situ generation and immediate use of primary organosodium reagents in continuous flow, enabling direct one-step formation from alkyl chlorides without the tertiary amide stabilisation typically required in batch.

Learn more

Workflow for evaluating enzyme immobilization and performance for continuous flow manufacturing

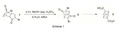


Luteran and co-workers from Los Alamos National Laboratory have presented a practical workflow for evaluating enzyme immobilisation strategies and their performance under continuous flow manufacturing conditions. The study focuses on immobilisation efficiency, methodological simplicity and reaction kinetics, using C. ensiformis (Jack bean) urease as a model enzyme to benchmark different solid supports.

Learn More

Application Notes

Below, we highlight two application notes, each demonstrating practical advances achievable using Vapourtec's continuous processing systems.

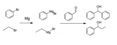


Application Note 48:

Photochemical synthesis of a cubane

This application note demonstrates the preparation of cage compound 2 from an advanced diene precursor 1, which can be prepared from cyclopentanone. After optimization, this key photochemical [2+2] photocycloaddition was successfully scaled up to multigram scale, and the cycloadduct was transformed to 1,4-cubane dicarboxylate 3.

Learn More



Application Note 67:

Generation of Grignard reagents on demand

This application note illustrates the capabilities of Vapourtec's packed bed reactor for a fast, consistent generation of Grignard reagents in flow. Under continuous flow conditions, an organic bromide reacts with magnesium packed inside the Variable Bed Flow Reactor, adjusting its volume to keep a constant packing density.

Learn More

Events

23rd Bristol Synthesis Meeting
31st March 2026
Bristol, UK
Attending - Naomi Lawson

Find out more

Flow Chemistry Europe
16th - 17th April 2026
Malaga, Spain
Attending - Dr Manuel Nuño

Find out more

ISOFR-14
7th - 10th June 2026
Bologna, Italy
Attending - Alfatech S.p.A

Find out more

Sunichem 3
1st July 2026
Marseille, France
Attending - Dr Manuel Nuño

Find out more

Publications

Below are six selected publications from the 50+ recent papers citing Vapourtec systems. To view the full list of publications, click here.

Application of Direct Inject Liquid Chromatography (DILC) as Real-Time Process Analytical Technology for Flow Reactions

Learn more

Green-Light Photocatalysis: Borylated Benzo[c][1,2,5]thiadiazole (BTZ) Enables Phosphorylation of Quinoline Derivatives

Learn more

Reac-Discovery: an artificial intelligence–driven platform for continuous-flow catalytic reactor discovery and optimization

Learn more

Surfactant-enabled strategy for molecular solar thermal energy storage systems in water

Learn more

Flow Process for Production of Crisaborole Using Organolithium Chemistry with Control over Impurity Formation

Learn more

Photoactive PFA Coating through Fluorophilic Interactions for Continuous Flow Photochemistry

Learn more

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