Insights into the Mechanism of Chemical Reactions now at your Fingertips!
The Solution that Enhances Process Understanding

InsightMR Flow Tube

InsightMR Software
InsightMR Flow Tube

www.bruker.com/InsightMR
Online Reaction Monitoring by NMR

- Real-time monitoring
- Compatible with Bruker 5 mm probes
- Temperature controlled transfer lines
- Withstand pressures over 10 bar
- Interchangeable glass tube
- Proven robustness - industry tested
- Enables simultaneous acquisition of data using different analytical techniques: NMR, IR, pH, MS...
- Samples closer to the start of the reaction

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• A single interface for automated acquisition control and interactive NMR data analysis

• On-the-fly acquisition parameters adjustment based on real-time kinetic data

• Straightforward experiment set up. Default kinetics parameters provided for both deuterated and non-deuterated solvents

• Rapid and effortless handling of hundreds of stacked spectra

• Supports acquisition, processing and analysis of series of 1Ds (different nuclei), interleaved experiments and multi samples in parallel

Expands your PAT tool Box

www.bruker.com/InsightMR
Parallel acquisition and analysis of proton and carbon (fluorine...) NMR

Resolution enhanced, information rich data
Online Reaction Monitoring by NMR
Enabling Parallel Acquisition of Data from Different Techniques
Monitoring in Fully Protonated Solvents

DMF + Maleic Anh. → Product

CH₃CN
25°C

acetonitrile

7.25  7.00  6.75  6.50  6.25  6.00  ppm

3.25  3.00  2.75  2.50  2.25  2.00  ppm
Process Understanding – Structural Information of Intermediates
‘Partnering with scientists to shorten time-to-market with confidence, by gaining qualitative and quantitative insights into molecular structure and dynamics.’