

# PERKINELMER SIGNALS™ NOTEBOOK

## Ideation and Collaboration

PerkinElmer Signals™ Notebook provides a full-featured web based electronic notebook with the capabilities to share and collaborate and has chemical intelligence built in through ChemDraw™.

Signals Notebook provides you with an effective scientific research data management solution, where you can write up your research data in notebooks and experiments, drag and drop, store, organize, share, find and filter data with chemical ease. This click-and-go solution requires no installation and is easy to use. Signals Notebook is fully integrated with Microsoft® Office® and Microsoft® Office® Online, so you can create or attach your Office documents with your experiments, directly open them by choosing either Office or Office Online, make the necessary edits and save them back directly into Signals Notebook.

## AT A GLANCE

- Microsoft® Office® and Microsoft® Office® Online Integration
- Slick drag-and-drop authoring
- Lightning-fast text and chemical structure search
- Image upload and annotation
- ChemDraw integration
- Innovative metadata-based organization

## RETURN ON INVESTMENT

- Capture organizational insight with collaboration tools
- Leverage and integrate with existing data sources and investments
- Benefit from immediate ROI with a click-and-go start to electronic data capture

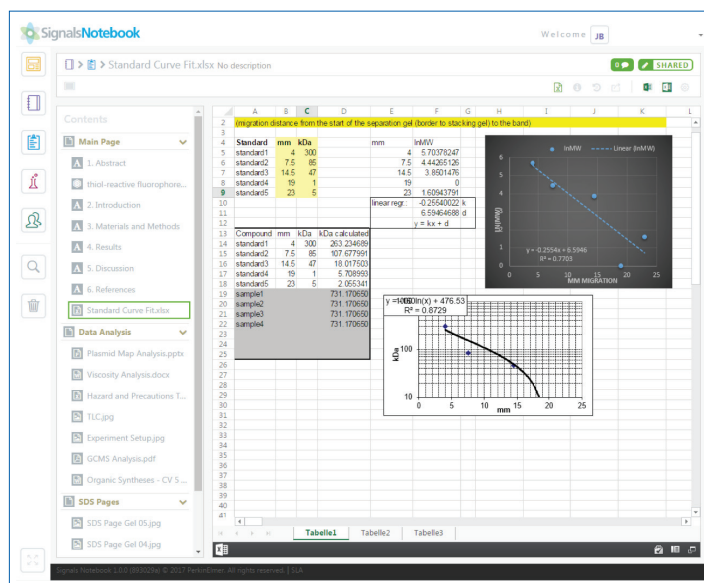


Figure 1. Slick, intuitive authoring

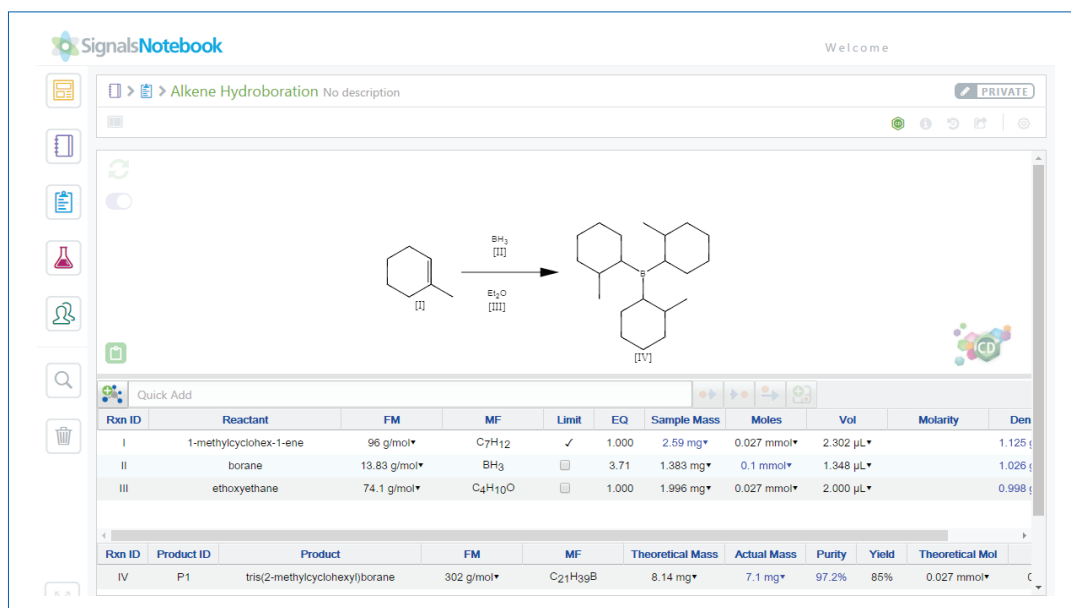


Figure 2. ChemDraw editing online with any platform

Viscosity Analysis.docx No description

PRIVATE

5. Discussion

Standard Curve Fit.xlsx

6. References

Protein LC-MS Report Exa...

compounds and cells-1.pzf

Data Analysis

Plasmid Map Analysis.pptx

Organic Syntheses - CV 5 ...

Viscosity Analysis.docx

MSDS Example 867-13-0...

SDS Pages

SDS Page Gel 04.jpg

### Determination of Kinematic and Absolute Viscosities

The viscosity of a liquid is calculated from the time it takes a fixed volume of the liquid to flow by gravity through a capillary.

**Equipment:**

1. Constant temperature bath, suitable for immersion of the viscometer tube so that the reservoir at the top of the capillary is at least five centimeters below the upper bath level. The device must be capable of maintaining the bath temperature within  $\pm 0.1^\circ\text{C}$  ( $\pm 32^\circ\text{F}$ ) of test temperature.
2. Cannon-Fenske viscosity tubes (see figure below). Select the size according to the expected viscosity range in the table below.
3. Thermometer ASTM No. 91C,  $20^\circ\text{--}50^\circ\text{C}$  ( $68^\circ\text{--}122^\circ\text{F}$ ) (for  $25^\circ\text{C}$  [ $77^\circ\text{F}$ ] bath), or ASTM No. 34C,  $25^\circ\text{--}105^\circ\text{C}$  ( $77^\circ\text{--}122^\circ\text{F}$ ) (for  $50^\circ\text{C}$  [ $122^\circ\text{F}$ ] bath).
4. Electric timer or stopwatch, 0.1 second readability.
5. Viscometer holders, Cannon-Fenske, Cannon Instrument Company.

Range of Viscosity in Centistokes for 35 to 100 seconds efflux time (as calculated with the approximate viscometer tube constant)	Viscometer Tube Size	Approximate Viscometer Tube Constant Centistokes/Second
3.5 to 10	200	0.1
8.8 to 25	300	0.25

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Figure 3. Innovative Navigation

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please visit <http://www.perkinelmer.com/lab-products-and-services/informatics>