

Data if you select the whole bimodal distribution:

ASTRA 5.3.4 Detailed Report for PDMAEMA-polypyrrolidone

Experiment name: C:\Documents and Settings\Administrator\My Documents\Emily\Other's research\ PDMAEMA-polypyrrolidone

Sample:

Description:

Concentration: 4.000e-3 g/mL

Injected volume: 0.020 mL

Processing Operator: Administrator

Collection Operator: Administrator

Collection Astra Version: 5.3.4.19

CONFIGURATION

Viscometer: n/a

Dilution factor: n/a

Band broadening correction: n/a (Instrumental: n/a Mixing: n/a)

RI Instrument: Optilab rEX

Cell type: n/a

Wavelength: 658.0 nm

Band broadening correction: n/a (Instrumental: n/a Mixing: n/a)

UV Instrument: n/a

Wavelength: n/a

Cell length: n/a

UV response factor: n/a

Band broadening correction: n/a (Instrumental: n/a Mixing: n/a)

Column: 2014-12-16

Description:

Calibration technique: Conventional

Universal equation: $\log(M[\eta]) = 0 - 0 \ v$

Universal standard error: 0.0000

Universal adjusted R²: 0.0000

Conventional equation: $\log(\text{molar mass}) = 9.43321 - 0.275684 \ v$

Conventional standard error: 0.1156

Conventional adjusted R²: 0.9887

Flow marker: 0.000 mL

Mark-Houwink-Sakurada K: 0.000 mL/g

Mark-Houwink-Sakurada a: 0.000

Solvent: DMF

Refractive index: 1.431

Flow rate: 0.500 mL/min

Fluid Connections:

Source Instrument	- Destination Instrument	Delay Volume
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Generic pump	- Injector	0.000 mL
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Injector	- Generic column	0.000 mL
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Generic column	- Optilab rEX	0.000 mL
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Aux Connections:

Source Instrument	- Destination Instrument	Aux Channel	Calibration Constant
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PROCESSING

Processing time: Friday February 06, 2015 01:30 PM Central Standard Time
Collection time: Wednesday February 04, 2015 01:49 PM Central Standard Time
Flow marker: 0.000 mL

Mark-Houwink-Sakurada K: 1.832e-2 mL/g

Mark-Houwink-Sakurada a: 6.903e-1

Concentration detector: RI

Mass results fitting: none (fit degree: n/a)

Peak 1

Peak limits (min) 21.752 - 43.346

dn/dc (mL/g) 0.060

UV ext. (mL/(g cm)) 0.000

Eta Model Huggins

Huggins Constant 0.0000

Kraemer Constant 0.0000

Injected mass (g) 8.0000e-5

Calc. mass (g) 2.6421e-4

RESULTS

Peak 1

Polydispersity

Mw/Mn 4.173 (43%)

Mz/Mn 11.062 (75%)

Molar mass moments (g/mol)

Mn 6.193e+4 (31%)

Mw 2.584e+5 (31%)

Mz 6.850e+5 (68%)

M(avg) 5.735e+3 (1%)

Distribution Analysis Results:

Name Type Start - End Limits (%) Cumulative % Moments

Data if you select each peak in the bimodal distribution:

ASTRA 5.3.4 Detailed Report for PDMAEMA-polypyrrolidone

Experiment name: C:\Documents and Settings\Administrator\My Documents\Emily\Other's research\ PDMAEMA-polypyrrolidone

Sample:

Description:

Concentration: 4.000e-3 g/mL

Injected volume: 0.020 mL

Processing Operator: Administrator

Collection Operator: Administrator

Collection Astra Version: 5.3.4.19

CONFIGURATION

Viscometer: n/a

Dilution factor: n/a

Band broadening correction: n/a (Instrumental: n/a Mixing: n/a)

RI Instrument: Optilab rEX

Cell type: n/a

Wavelength: 658.0 nm

Band broadening correction: n/a (Instrumental: n/a Mixing: n/a)

UV Instrument: n/a

Wavelength: n/a

Cell length: n/a

UV response factor: n/a

Band broadening correction: n/a (Instrumental: n/a Mixing: n/a)

Column: 2014-12-16

Description:

Calibration technique: Conventional

Universal equation: $\log(M[\eta]) = 0 - 0 \ v$

Universal standard error: 0.0000

Universal adjusted R²: 0.0000

Conventional equation: $\log(\text{molar mass}) = 9.43321 - 0.275684 \ v$

Conventional standard error: 0.1156

Conventional adjusted R²: 0.9887

Flow marker: 0.000 mL

Mark-Houwink-Sakurada K: 0.000 mL/g

Mark-Houwink-Sakurada a: 0.000

Solvent: DMF

Refractive index: 1.431

Flow rate: 0.500 mL/min

Fluid Connections:

Source Instrument	- Destination Instrument	Delay Volume
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Generic pump	- Injector	0.000 mL
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Injector	- Generic column	0.000 mL
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Generic column	- Optilab rEX	0.000 mL
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Aux Connections:

Source Instrument	- Destination Instrument	Aux Channel	Calibration Constant
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PROCESSING

Processing time: Friday February 06, 2015 01:31 PM Central Standard Time
Collection time: Wednesday February 04, 2015 01:49 PM Central Standard Time
Flow marker: 0.000 mL

Mark-Houwink-Sakurada K: 1.832e-2 mL/g

Mark-Houwink-Sakurada a: 6.903e-1

Concentration detector: RI

Mass results fitting: none (fit degree: n/a)

	Peak 1	Peak 2
Peak limits (min)	21.752 - 27.170	27.484 - 43.503
dn/dc (mL/g)	0.060	0.060
UV ext. (mL/(g cm))	0.000	0.000
Eta Model	Huggins	Huggins
Huggins Constant	0.0000	0.0000
Kraemer Constant	0.0000	0.0000
Injected mass (g)	8.0000e-5	8.0000e-5
Calc. mass (g)	4.4505e-5	2.1635e-4

RESULTS

	Peak 1	Peak 2
Polydispersity		
Mw/Mn	1.116 (43%)	2.395 (43%)
Mz/Mn	1.261 (75%)	3.889 (75%)

Molar mass moments (g/mol)

Mn	8.063e+5 (31%)	5.147e+4 (31%)
Mw	9.001e+5 (31%)	1.233e+5 (31%)
Mz	1.016e+6 (68%)	2.002e+5 (68%)
M(avg)	8.265e+5 (1%)	5.427e+3 (1%)

Distribution Analysis Results:

Name Type Start - End Limits (%) Cumulative % Moments
chromatograms

