

Table S1: Data parameters for the Boltzmann model for volume loss at constant relative Humidity

[14/01/2019 00:01 "/Graph1" (2458497)]			[14/01/2019 00:03 "/Graph1" (2458498)]		
Sigmoidal(Boltzmann) fit to Data1_ HR40 %:			Sigmoidal(Boltzmann) fit to Data 2_ HR50 %:		
Chi ² /DoF	0.00211		Chi ² /DoF	0.00278	
R ²	0.99996		R ²	0.99993	
		error			error
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Init(A1)	1.6070	0.119	Init(A1)	1.3024	0.136
Final(A2)	41.71	0.593	Final(A2)	35.95	0.705
XatY50(x0)	35.542	0.267	XatY50(x0)	35.806	0.37
Width(dx)	10.536	0.165	Width(dx)	10.567	0.224
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XatY20	20.93615		XatY20	21.15635	
XatY80	50.14832		XatY80	50.45546	
[14/01/2019 00:31 "/Graph1" (2458499)]			[14/01/2019 00:34 "/Graph1" (2458500)]		
Sigmoidal(Boltzmann) fit to Data 3_ HR45 %:			Sigmoidal(Boltzmann) fit to Data 4_ HR55 %:		
Chi ² /DoF	0.00274		Chi ² /DoF	0.0056	
R ²	0.99994		R ²	0.99983	
		error			error
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Init(A1)	1.5355	0.132	Init(A1)	1.0956	0.189
Final(A2)	40.509	0.749	Final(A2)	30.057	0.676
XatY50(x0)	36.38	0.354	XatY50(x0)	33.243	0.385
Width(dx)	10.571	0.202	Width(dx)	10.034	0.298
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XatY20	21.72565		XatY20	19.33345	
XatY80	51.03379		XatY80	47.15308	
[14/01/2019 00:05 "/Graph1" (2458501)]			[14/01/2019 00:07 "/Graph1" (2458502)]		
Sigmoidal(Boltzmann) fit to Data 5_ HR60 %:			Sigmoidal(Boltzmann) fit to Data 6_ HR70 %:		
Chi ² /DoF	6.39E-04		Chi ² /DoF	4.93E-04	
R ²	0.99997		R ²	0.99997	
		error			error
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Init(A1)	1.0114	0.0685	Init(A1)	0.84564	0.0574
Final(A2)	26.829	0.283	Final(A2)	21.923	0.283
XatY50(x0)	34.376	0.192	XatY50(x0)	35.473	0.242
Width(dx)	10.489	0.134	Width(dx)	10.514	0.151
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XatY20	19.8354		XatY20	20.89736	
XatY80	48.91636		XatY80	50.04836	
[14/01/2019 00:37 "/Graph1" (2458503)]			[14/01/2019 00:39 "/Graph1" (2458504)]		
Sigmoidal(Boltzmann) fit to Data 7_ HR65 %:			Sigmoidal(Boltzmann) fit to Data 8_ HR75 %:		

Chi^2/DoF	0.00163		Chi^2/DoF	3.42E-04	
R^2	0.99991		R^2	0.99997	
		error			error

Init(A1)	1.0462	0.102	Init(A1)	0.71524	0.0478
Final(A2)	21.885	0.35	Final(A2)	18.801	0.239
XatY50(x0)	32.97	0.273	XatY50(x0)	35.558	0.239
Width(dx)	9.9739	0.218	Width(dx)	10.529	0.147

XatY20	19.14347		XatY20	20.96175	
XatY80	46.79713		XatY80	50.15497	

[14/01/2019 00:11 "/Graph1" (2458505)]

Sigmoidal(Boltzmann) fit to Data 9_HR80 %:

[14/01/2019 00:13 "/Graph1" (2458506)]

Sigmoidal(Boltzmann) fit to Data10HR90 %:

Chi^2/DoF	2.04E-04		Chi^2/DoF	7.49E-05	
R^2	0.99997		R^2	0.99997	
		error			error

Init(A1)	0.59482	0.0365	Init(A1)	0.34081	0.0221
Final(A2)	15.634	0.187	Final(A2)	8.9313	0.114
XatY50(x0)	35.714	0.225	XatY50(x0)	35.746	0.24
Width(dx)	10.514	0.137	Width(dx)	10.509	0.145

XatY20	21.13933		XatY20	21.17678	
XatY80	50.28895		XatY80	50.31475	

[14/01/2019 00:40 "/Graph1" (2458507)]

Sigmoidal(Boltzmann) fit to Data11_HR85 %:

[14/01/2019 00:42 "/Graph1" (2458508)]

Sigmoidal(Boltzmann) fit to Data12HR95 %:

Chi^2/DoF	1.05E-04		Chi^2/DoF	3.42E-05	
R^2	0.99998		R^2	0.99996	
		error			error

Init(A1)	0.43913	0.027	Init(A1)	0.21782	0.0148
Final(A2)	12.119	0.132	Final(A2)	5.2976	0.0669
XatY50(x0)	35.491	0.205	XatY50(x0)	34.827	0.231
Width(dx)	10.588	0.128	Width(dx)	10.325	0.152

XatY20	20.81278		XatY20	20.51272	
XatY80	50.16985		XatY80	49.14074	