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BAM - FB 1.3

Sample: Anhydrit-Estrich D_18 [5612] 24h 40C
Operator: Zimathies / BAM 1.3
Submitter: Dr. S. Kruschwitz / BAM 8.2
File: C:\2020\DATA\D18-1099.SMP

Started: 26.05.2016 8:22:25
Completed: 27.05.2016 21:06:19
Report Time: 06.06.2016 10:50:26
Sample Mass: 4.7971 g
Cold Free Space: 42.0149 cm³
Low Pressure Dose: None

Analysis Adsorptive: N2
Analysis Bath Temp.: 77.360 K
Thermal Correction: No
Warm Free Space: 14.5795 cm³ Measured
Equilibration Interval: 20 s
Automatic Degas: Yes

Summary Report

Surface Area

Single point surface area at p/p° = 0.292514225: 0.8356 m²/g

BET Surface Area: 0.8794 m²/g

BJH Adsorption cumulative surface area of pores between 1.7000 nm and 300.0000 nm diameter: 0.850 m²/g

BJH Desorption cumulative surface area of pores between 1.7000 nm and 300.0000 nm diameter: 1.1578 m²/g

Pore Volume

Single point adsorption total pore volume of pores less than 965.5945 nm diameter at p/p° = 0.998008263: 0.006008 cm³/g

BJH Adsorption cumulative volume of pores between 1.7000 nm and 300.0000 nm diameter: 0.005306 cm³/g

BJH Desorption cumulative volume of pores between 1.7000 nm and 300.0000 nm diameter: 0.005953 cm³/g

Pore Size

Adsorption average pore width (4V/A by BET): 27.33094 nm

BJH Adsorption average pore diameter (4V/A): 24.9827 nm

BJH Desorption average pore diameter (4V/A): 20.5659 nm

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Isotherm Tabular Report

Relative Pressure (p/p°)	Absolute Pressure (mmHg)	Quantity Adsorbed (cm³/g STP)	Elapsed Time (h:min)	Saturation Pressure (mmHg)
			01:16	761.224182
0.004833433	3.679415	0.0990	01:47	
0.008698949	6.622037	0.1109	01:52	
0.012570707	9.569433	0.1191	01:57	
0.016659261	12.681879	0.1255	02:01	
			02:03	761.252197
0.021760804	16.565418	0.1324	02:08	
0.032790376	24.961634	0.1435	02:12	
0.041085107	31.275925	0.1511	02:16	
0.048322060	36.784962	0.1566	02:20	
0.055909265	42.560604	0.1620	02:24	
0.074849234	56.978432	0.1741	02:28	
0.103259875	78.605667	0.1893	02:32	
0.149581685	113.867508	0.2118	02:36	
0.200141691	152.355484	0.2339	02:40	
0.220327464	167.721329	0.2425	02:44	
0.250284947	190.525681	0.2549	02:48	
			02:50	761.234314
0.292514225	222.670502	0.2713	02:55	
0.350403833	266.736481	0.2944	02:59	
0.400470157	304.846771	0.3144	03:03	
0.450359853	342.822235	0.3348	03:07	
0.500342286	380.867920	0.3562	03:11	
0.550316108	418.906677	0.3789	03:15	
0.600286812	456.942688	0.4042	03:19	
0.650144147	494.892029	0.4326	03:23	
0.700113664	532.926392	0.4668	03:27	
0.749981197	570.882751	0.5103	03:31	
0.799873996	608.857971	0.5701	03:35	
			03:37	761.190491
0.849427496	646.577148	0.6618	03:41	
0.875462886	666.396118	0.7382	03:45	
0.900028078	685.096313	0.8398	03:50	
0.910728565	693.242554	0.9004	03:54	
0.920376734	700.588074	0.9645	03:59	
0.929927604	707.859558	1.0435	04:04	
0.939895418	715.448730	1.1480	04:10	
0.949736524	722.941772	1.2861	04:17	
0.959547933	730.412537	1.4774	04:25	
			04:27	761.205444
0.969190702	737.691772	1.7551	04:37	
0.975433212	742.381348	2.0133	04:47	
0.980476206	746.151062	2.2895	04:58	
0.983623936	748.484131	2.5108	05:08	
0.986964754	750.957458	2.7988	05:19	
			05:21	760.862976
0.990409836	753.533264	3.1658	05:33	

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Equilibration Interval: 20 s
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Isotherm Tabular Report

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0.993112569	755.553833	3.5192	05:46	
0.998008263	759.248047	3.8844	05:57	
0.989660782	752.872925	3.6194	06:06	
			06:07	760.735596
0.984885466	749.170227	3.3078	06:18	
0.979843366	745.268005	3.0181	06:29	
0.979703119	745.137024	2.9936	06:33	
0.970385764	737.972229	2.5596	06:46	
0.961066405	730.819336	2.2090	06:57	
			06:59	760.413025
0.950452844	722.695984	1.9085	07:09	
0.940919186	715.414612	1.7029	07:17	
0.936489236	712.022278	1.6232	07:23	
0.930597259	707.518616	1.5317	07:29	
0.920406821	699.747314	1.3978	07:35	
0.910310269	692.047913	1.2915	07:41	
0.900805616	684.802856	1.2074	07:46	
			07:48	760.203003
0.880326973	669.233521	1.0629	07:54	
0.860272494	653.993042	0.9543	07:59	
0.840682784	639.105652	0.8709	08:04	
0.820396351	623.687378	0.8019	08:08	
0.800561936	608.612549	0.7476	08:12	
0.780325625	593.231995	0.7028	08:16	
0.750310023	570.416626	0.6508	08:20	
0.700269703	532.377258	0.5858	08:24	
0.650720501	494.710785	0.5359	08:28	
0.600543631	456.566650	0.4948	08:32	
0.550306700	418.376373	0.4594	08:36	
			08:38	760.262756
0.500246081	380.320374	0.4196	08:42	
0.491000861	373.293884	0.3972	08:47	
0.479273451	364.379700	0.3734	08:51	
0.470355676	357.601532	0.3604	08:55	
0.460283330	349.945496	0.3509	08:59	
0.450542356	342.541321	0.3437	09:03	
0.400218912	304.282990	0.3180	09:08	
0.350788149	266.702545	0.2965	09:12	
0.299818374	227.951614	0.2751	09:16	
0.249854064	189.964752	0.2545	09:20	
0.200010621	152.069595	0.2332	09:25	
			09:27	760.309509
0.150056593	114.089111	0.2112	09:31	
0.100156537	76.149452	0.1873	09:36	
0.080054176	60.865356	0.1760	09:40	
0.050118249	38.104866	0.1566	09:45	
0.035127984	26.707699	0.1439	09:49	

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Isotherm Tabular Report

Relative Pressure (p/p°)	Absolute Pressure (mmHg)	Quantity Adsorbed (cm³/g STP)	Elapsed Time (h:min)	Saturation Pressure (mmHg)
0.025073835	19.063459	0.1332	09:56	
0.015148397	11.517176	0.1197	10:01	
0.010383519	7.894451	0.1105	10:07	
0.008169850	6.211405	0.1052	10:12	
			10:14	760.282654
0.007909434	6.013406	0.1038	10:20	
0.006992631	5.316376	0.1012	10:25	
0.006240018	4.744178	0.0989	10:29	
0.004881179	3.711076	0.0939	10:35	
0.003644371	2.770752	0.0885	10:43	
0.002542687	1.933161	0.0819	10:47	
0.001454883	1.106122	0.0721	10:54	

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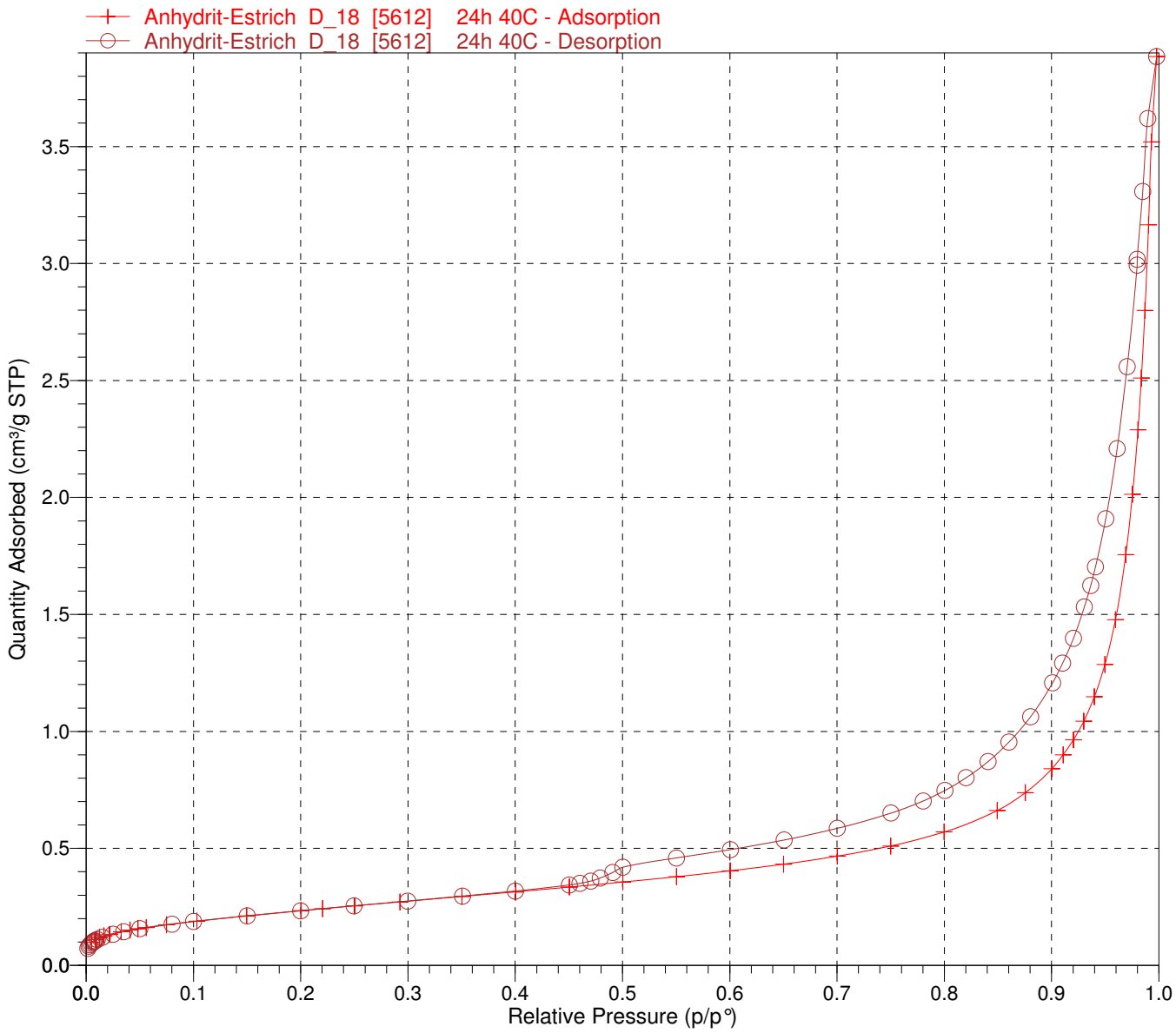
Isotherm Linear Plot



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BET Surface Area Report

BET Surface Area: 0.8794 ± 0.0042 m²/g
Slope: 4.849748 ± 0.023373 g/cm³ STP
Y-Intercept: 0.100667 ± 0.004362 g/cm³ STP
C: 49.175954
Qm: 0.2020 cm³/g STP
Correlation Coefficient: 0.9999303
Molecular Cross-Sectional Area: 0.1620 nm²

Relative Pressure (p/p°)	Quantity Adsorbed (cm³/g STP)	1/[Q(p°/p - 1)]
0.055909265	0.1620	0.365450
0.074849234	0.1741	0.464761
0.103259875	0.1893	0.608273
0.149581685	0.2118	0.830337
0.200141691	0.2339	1.069926
0.220327464	0.2425	1.165134
0.250284947	0.2549	1.309561
0.292514225	0.2713	1.523870

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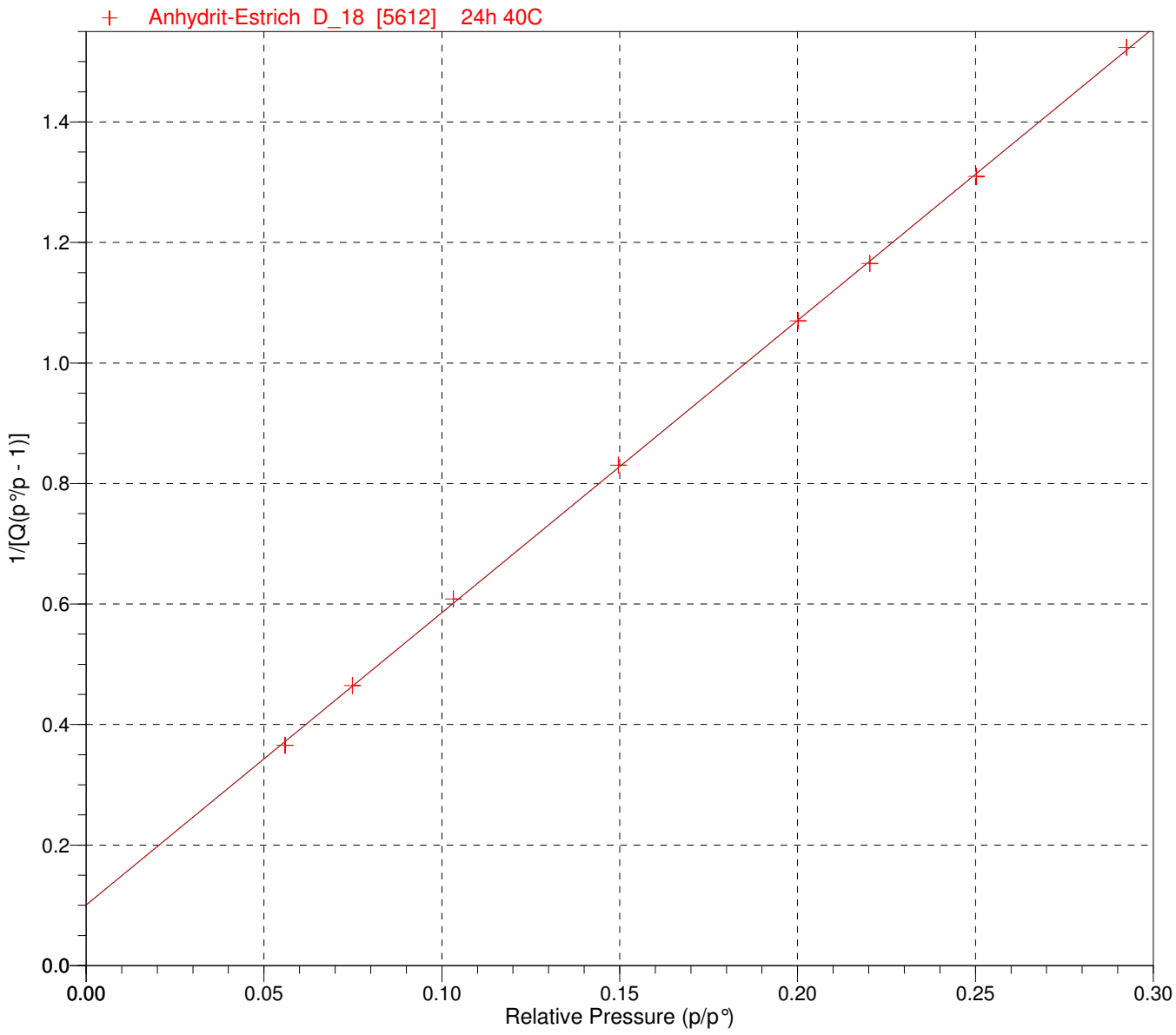

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BJH Adsorption Pore Distribution Report

Faas Correction
Halsey
t = 3.54 [-5 / ln(p/p°)] ^ 0.333

Diameter Range: 1.7000 nm to 300.0000 nm
Adsorbate Property Factor: 0.95300 nm
Density Conversion Factor: 0.0015468
Fraction of Pores Open at Both Ends: 0.00

Pore Diameter Range (nm)	Average Diameter (nm)	Incremental Pore Volume (cm³/g)	Cumulative Pore Volume (cm³/g)	Smoothed dV/dDiameter Pore Volume (nm)	Smoothed dV/dlog(Diameter Pore Volume (nm)
281.7 - 203.0	229.8	0.000570	0.000570	8.7796×10^{-6}	4.1046×10^{-3}
203.0 - 150.0	168.6	0.000596	0.001166	1.3880×10^{-5}	4.7928×10^{-3}
150.0 - 119.8	131.5	0.000470	0.001636	1.7483×10^{-5}	4.8207×10^{-3}
119.8 - 100.7	108.6	0.000363	0.001999	2.0578×10^{-5}	4.7722×10^{-3}
100.7 - 80.3	88.2	0.000455	0.002454	2.4564×10^{-5}	4.5443×10^{-3}
80.3 - 64.3	70.5	0.000428	0.002882	2.8853×10^{-5}	4.2729×10^{-3}
64.3 - 49.2	54.7	0.000463	0.003345	3.2642×10^{-5}	3.7001×10^{-3}
49.2 - 39.8	43.5	0.000319	0.003665	3.5073×10^{-5}	3.2126×10^{-3}
39.8 - 33.4	36.0	0.000231	0.003895	3.6682×10^{-5}	2.8191×10^{-3}
33.4 - 28.7	30.7	0.000174	0.004069	3.8151×10^{-5}	2.5218×10^{-3}
28.7 - 25.3	26.8	0.000131	0.004200	3.8998×10^{-5}	2.2733×10^{-3}
25.3 - 22.6	23.8	0.000106	0.004306	4.0688×10^{-5}	2.1192×10^{-3}
22.6 - 20.2	21.3	0.000100	0.004407	4.2140×10^{-5}	1.9628×10^{-3}
20.2 - 16.3	17.8	0.000167	0.004573	4.3499×10^{-5}	1.6299×10^{-3}
16.3 - 13.5	14.6	0.000124	0.004697	4.3368×10^{-5}	1.3446×10^{-3}
13.5 - 10.1	11.3	0.000143	0.004840	4.2193×10^{-5}	9.8149×10^{-4}
10.1 - 8.0	8.8	0.000088	0.004929	4.2966×10^{-5}	7.9447×10^{-4}
8.0 - 6.6	7.2	0.000061	0.004990	4.4791×10^{-5}	6.8332×10^{-4}
6.6 - 5.6	6.0	0.000047	0.005037	4.6521×10^{-5}	6.0011×10^{-4}
5.6 - 4.8	5.1	0.000038	0.005074	5.1283×10^{-5}	5.6941×10^{-4}
4.8 - 4.2	4.5	0.000034	0.005108	5.6492×10^{-5}	5.4650×10^{-4}
4.2 - 3.7	3.9	0.000030	0.005138	6.3305×10^{-5}	5.3840×10^{-4}
3.7 - 3.3	3.5	0.000029	0.005167	7.1881×10^{-5}	5.4079×10^{-4}
3.3 - 2.9	3.1	0.000028	0.005195	8.0779×10^{-5}	5.3988×10^{-4}
2.9 - 2.6	2.7	0.000027	0.005222	9.1943×10^{-5}	5.4659×10^{-4}

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Equilibration Interval: 20 s
Automatic Degas: Yes

Pore Diameter Range (nm)	Average Diameter (nm)	Incremental Pore Volume (cm³/g)	Cumulative Pore Volume (cm³/g)	Smoothed dV/dDiameter Pore Volume (nm)	Smoothed lV/dlog(Diameter Pore Volume (nm)
2.6 - 2.3	2.4	0.000033	0.005255	1.0055×10^{-4}	5.2180×10^{-4}
2.3 - 2.0	2.1	0.000022	0.005276	1.0899×10^{-4}	5.1074×10^{-4}
2.0 - 1.9	2.0	0.000017	0.005294	1.2039×10^{-4}	5.2349×10^{-4}
1.9 - 1.8	1.8	0.000012	0.005306	1.2981×10^{-4}	5.3538×10^{-4}

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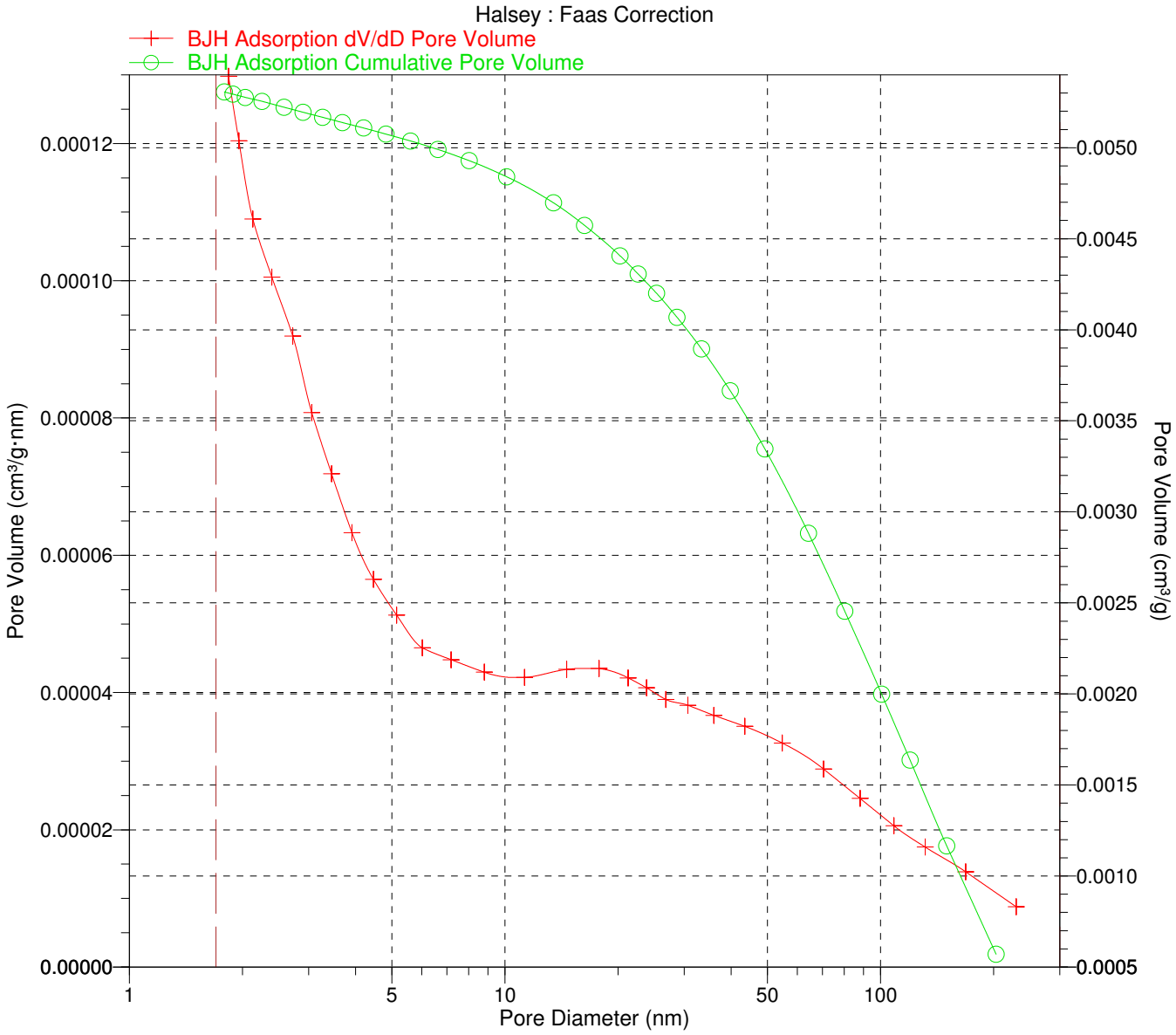
BJH Adsorption dV/dD Pore Volume



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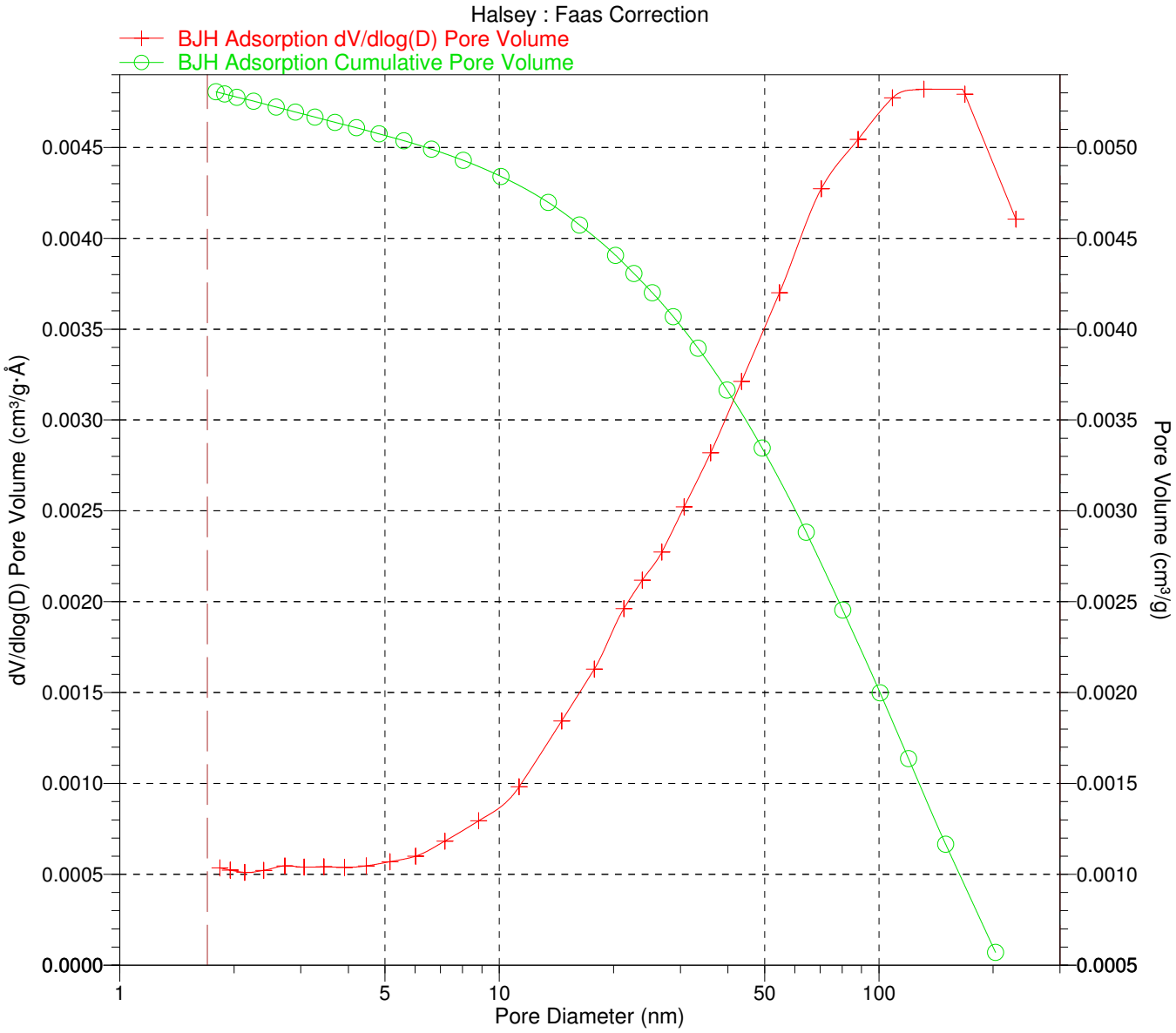
BJH Adsorption dV/dlog(D) Pore Volume



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BJH Desorption Pore Distribution Report

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Diameter Range: 1.7000 nm to 300.0000 nm
Adsorbate Property Factor: 0.95300 nm
Density Conversion Factor: 0.0015468
Fraction of Pores Open at Both Ends: 0.00

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965.1 - 188.4	216.1	0.000430	0.000430	2.7560×10^{-6}	1.1960×10^{-3}
188.4 - 129.5	148.3	0.000509	0.000939	1.2023×10^{-5}	3.5861×10^{-3}
129.5 - 97.5	109.0	0.000477	0.001416	2.1405×10^{-5}	4.8075×10^{-3}
97.5 - 96.9	97.2	0.000041	0.001457	2.1614×10^{-5}	4.8216×10^{-3}
96.9 - 66.8	76.4	0.000724	0.002181	3.1707×10^{-5}	4.8775×10^{-3}
66.8 - 51.1	56.8	0.000591	0.002772	4.2669×10^{-5}	5.0164×10^{-3}
51.1 - 40.3	44.4	0.000511	0.003283	5.2100×10^{-5}	4.8333×10^{-3}
40.3 - 33.9	36.5	0.000351	0.003634	5.7248×10^{-5}	4.4672×10^{-3}
33.9 - 31.6	32.6	0.000136	0.003770	5.8804×10^{-5}	4.2737×10^{-3}
31.6 - 28.9	30.1	0.000156	0.003926	6.0739×10^{-5}	4.0452×10^{-3}
28.9 - 25.3	26.8	0.000229	0.004155	6.3904×10^{-5}	3.7184×10^{-3}
25.3 - 22.5	23.7	0.000181	0.004336	6.6063×10^{-5}	3.4167×10^{-3}
22.5 - 20.3	21.3	0.000143	0.004480	6.8640×10^{-5}	3.2133×10^{-3}
20.3 - 16.9	18.3	0.000247	0.004726	7.4382×10^{-5}	2.8901×10^{-3}
16.9 - 14.5	15.5	0.000185	0.004911	7.7768×10^{-5}	2.5885×10^{-3}
14.5 - 12.7	13.4	0.000140	0.005051	7.9168×10^{-5}	2.3095×10^{-3}
12.7 - 11.2	11.9	0.000115	0.005166	7.8599×10^{-5}	2.0308×10^{-3}
11.2 - 10.1	10.6	0.000088	0.005254	7.5945×10^{-5}	1.7632×10^{-3}
10.1 - 9.1	9.6	0.000071	0.005325	7.2113×10^{-5}	1.5157×10^{-3}
9.1 - 8.0	8.5	0.000079	0.005404	6.7412×10^{-5}	1.2396×10^{-3}
8.0 - 6.6	7.1	0.000093	0.005497	6.6751×10^{-5}	1.0104×10^{-3}
6.6 - 5.6	6.0	0.000068	0.005565	6.7473×10^{-5}	8.6338×10^{-4}
5.6 - 4.8	5.1	0.000054	0.005619	7.0060×10^{-5}	7.6956×10^{-4}
4.8 - 4.1	4.4	0.000045	0.005664	8.6926×10^{-5}	8.2752×10^{-4}
4.1 - 3.6	3.9	0.000061	0.005725	2.7065×10^{-4}	2.2674×10^{-3}

Sample: Anhydrit-Estrich D_18 [5612] 24h 40C
Operator: Zimathies / BAM 1.3
Submitter: Dr. S. Kruschwitz / BAM 8.2
File: C:\2020\DATA\D18-1099.SMP

Started: 26.05.2016 8:22:25
Completed: 27.05.2016 21:06:19
Report Time: 06.06.2016 10:50:26
Sample Mass: 4.7971 g
Cold Free Space: 42.0149 cm³
Low Pressure Dose: None

Analysis Adsorptive: N2
Analysis Bath Temp.: 77.360 K
Thermal Correction: No
Warm Free Space: 14.5795 cm³ Measured
Equilibration Interval: 20 s
Automatic Degas: Yes

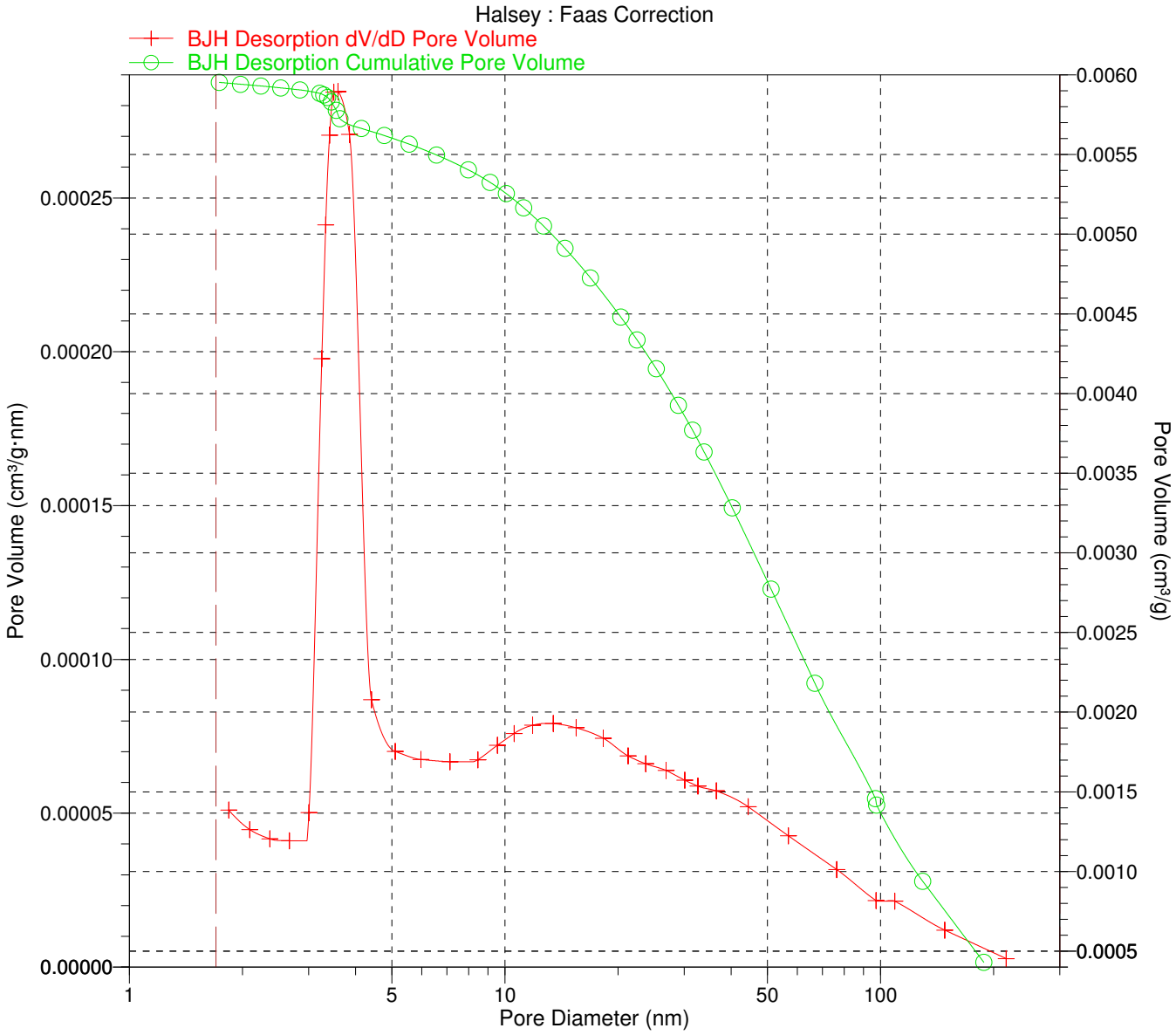
Pore Diameter Range (nm)	Average Diameter (nm)	Incremental Pore Volume (cm³/g)	Cumulative Pore Volume (cm³/g)	Smoothed dV/dDiameter Pore Volume (nm)	Smoothed lV/dlog(Diameter Pore Volume (nm)
3.6 - 3.6	3.6	0.000052	0.005777	2.8455×10^{-4}	2.3048×10^{-3}
3.6 - 3.5	3.5	0.000054	0.005830	2.8441×10^{-4}	2.2590×10^{-3}
3.5 - 3.4	3.4	0.000027	0.005857	2.7039×10^{-4}	2.1005×10^{-3}
3.4 - 3.3	3.3	0.000016	0.005873	2.4125×10^{-4}	1.8290×10^{-3}
3.3 - 3.2	3.3	0.000010	0.005884	1.9776×10^{-4}	1.4629×10^{-3}
3.2 - 2.8	3.0	0.000022	0.005905	5.0212×10^{-5}	3.2914×10^{-4}
2.8 - 2.5	2.7	0.000013	0.005918	4.1076×10^{-5}	2.3921×10^{-4}
2.5 - 2.2	2.4	0.000012	0.005930	4.1668×10^{-5}	2.1471×10^{-4}
2.2 - 2.0	2.1	0.000011	0.005941	4.4696×10^{-5}	2.0354×10^{-4}
2.0 - 1.7	1.8	0.000012	0.005953	5.1021×10^{-5}	2.0386×10^{-4}

Sample: Anhydrit-Estrich D_18 [5612] 24h 40C
Operator: Zimathies / BAM 1.3
Submitter: Dr. S. Kruschwitz / BAM 8.2
File: C:\2020\DATA\D18-1099.SMP

Started: 26.05.2016 8:22:25
Completed: 27.05.2016 21:06:19
Report Time: 06.06.2016 10:50:26
Sample Mass: 4.7971 g
Cold Free Space: 42.0149 cm³
Low Pressure Dose: None

Analysis Adsorptive: N2
Analysis Bath Temp.: 77.360 K
Thermal Correction: No
Warm Free Space: 14.5795 cm³ Measured
Equilibration Interval: 20 s
Automatic Degas: Yes

BJH Desorption dV/dD Pore Volume



Sample: Anhydrit-Estrich D_18 [5612] 24h 40C
Operator: Zimathies / BAM 1.3
Submitter: Dr. S. Kruschwitz / BAM 8.2
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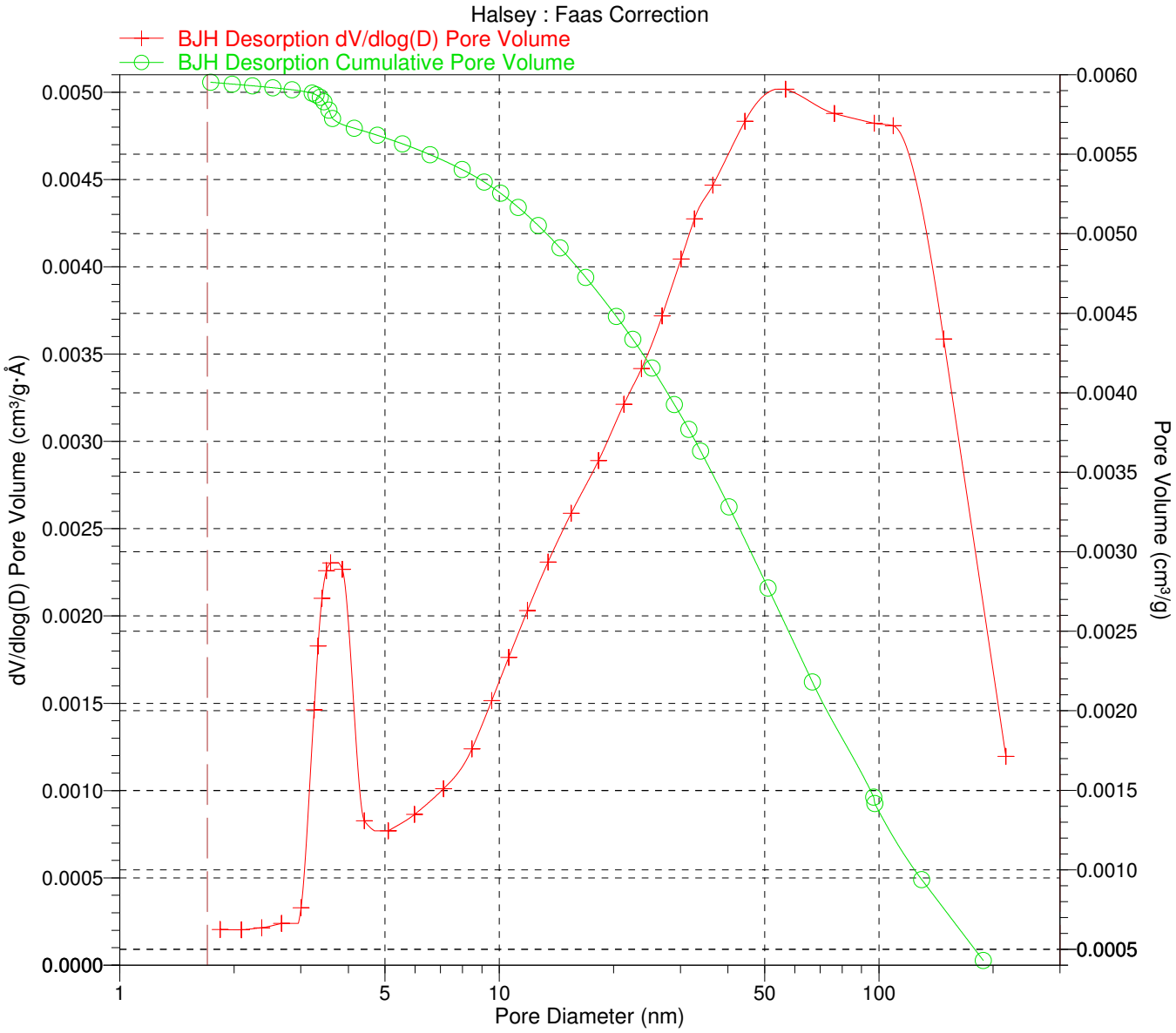
Equilibration Interval: 20 s
Automatic Degas: Yes

BJH Desorption dV/dlog(D) Pore Volume