

Sample: BR-CO2  
Operator:  
Submitter:  
File Name: C:\D\ASAP2010\DATA\001-554.SMP

Started: 2021-02-19 9:57:03 Analysis Adsorptive: CO2  
Completed: 2021-02-23 6:23:01 Analysis Bath: 298.15 K  
Report Time: 2020-07-27 14:23:21 Thermal Correction: No  
Sample Weight: 1.7396 g Smoothed Pressures: No  
Warm Freespace: 25.3789 cm<sup>3</sup> Cold Freespace: 25.3497 cm<sup>3</sup>  
MEASURED  
Equil. Interval: 10 secs Low Pressure Dose: 1.00 cm<sup>3</sup>/g STP

## Analysis Log

Relative Pressure	Pressure (mmHg)	Vol Adsorbed (cm <sup>3</sup> /g STP)	Elapsed Time (HR:MN)	Saturation Press. (mmHg)
				48252.09009
0.000513951	24.75922	0.8169	11:12	
0.001029468	49.67399	1.6757	12:49	
0.001549201	74.75218	2.5432	14:25	
0.002077359	100.25692	3.4102	16:02	
0.002613418	126.10290	4.2675	17:39	
0.003167431	152.83519	5.0946	19:13	
0.003773871	182.09715	5.8123	20:25	
0.004421024	213.32364	6.4449	21:21	
0.005105949	246.37271	7.0244	22:06	
0.005814426	280.55820	7.5558	22:43	
0.006532221	315.19330	8.0674	23:20	
0.007284691	351.50156	8.5096	23:47	
0.008049212	388.39130	8.9329	24:12	
0.008810640	425.13181	9.3624	24:37	
0.009586124	462.55051	9.7703	25:02	
0.010354236	499.61353	10.1978	25:27	
0.011108483	536.00751	10.6524	25:52	
0.011874739	572.93096	11.0826	26:17	
0.012648651	610.32385	11.5062	26:43	
0.013412666	647.13915	11.9436	27:08	
0.014170975	683.77917	12.3886	27:33	
0.014930568	720.43109	12.8330	27:58	
0.015693638	757.25085	13.2636	28:23	
0.016423510	792.46869	13.7454	28:48	
0.017160900	828.04932	14.2155	29:14	

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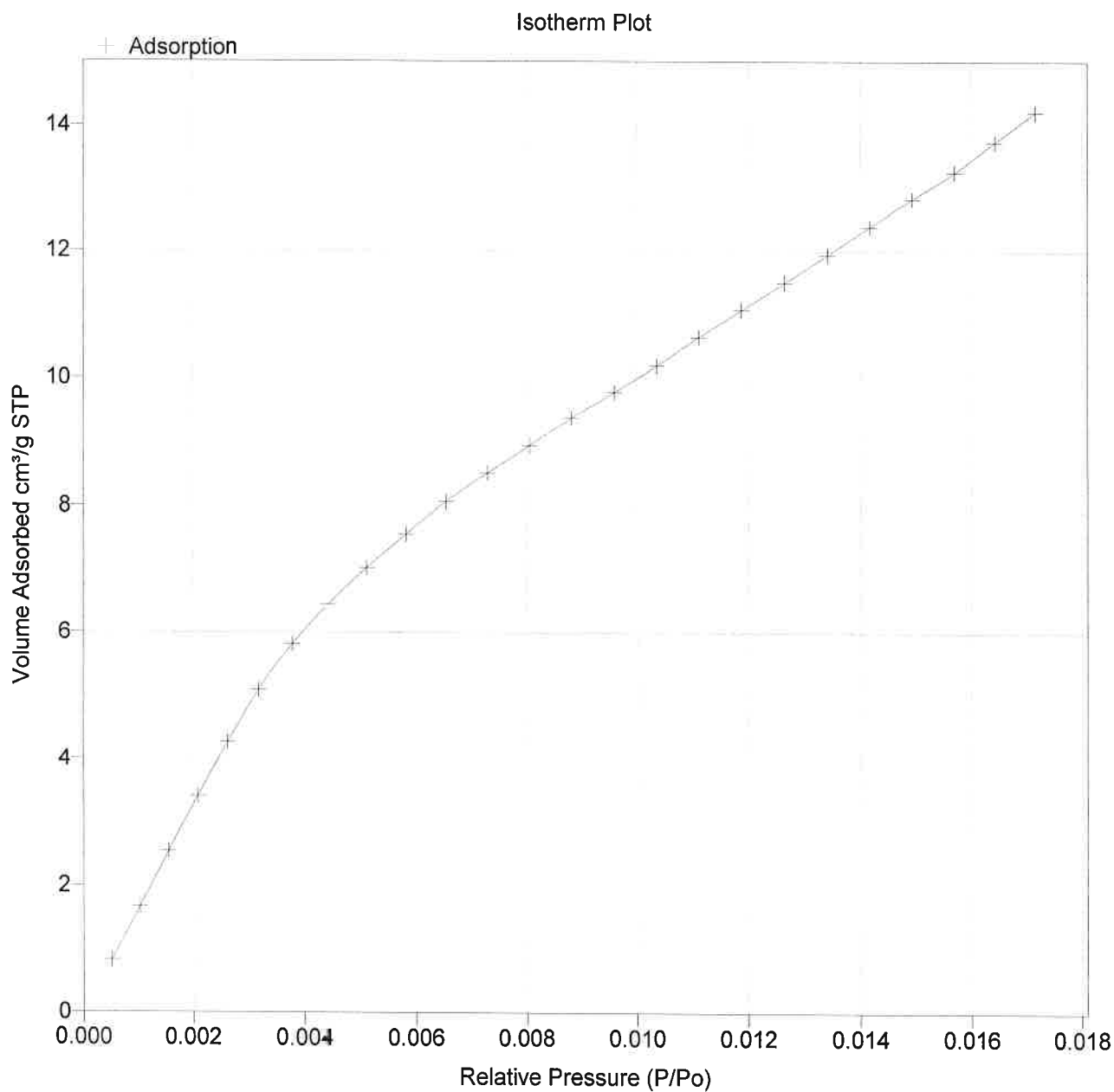
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## Dubinin-Astakhov Report

Slope:

-0.067362 ± 0.000581

Y-Intercept:

1.430081 ± 0.005625

Correlation Coefficient:

9.99145e-01

Relative Pressure Range:

0.000100000 to 0.050000000

Characteristic Energy:

25.213092 kJ/mole

Limiting Micropore Capacity:

26.920354 cm<sup>3</sup>/g STP

Limiting Micropore Volume:

0.049280 ± 0.000642 cm<sup>3</sup>/g

Equivalent Surface Area:

130.887486 m<sup>2</sup>/g

Affinity Coefficient (beta):

0.461

Optimize Exponent:

Yes

Exponent:

2.6210

Density Conversion Factor:

0.001831

Molecular Cross-Section:

0.170 nm<sup>2</sup>

Medek Quantities:

Mean Equivalent Pore Diameter:

1.506039 nm

Maximum Differential Pore Volume:

0.101378 cm<sup>3</sup>/g-nm

Modal Equivalent Pore Diameter:

1.395695 nm

Absolute Pressure (mmHg)	Relative Pressure	Volume Adsorbed (cm <sup>3</sup> /g STP)	Log Volume Adsorbed (cm <sup>3</sup> /g STP)	Log (Po/P) <sup>2.6210</sup>	Differential Pore Volume (cm <sup>3</sup> /g-nm)
24.79922	0.000513951	0.8169	-0.0878	22.6608519	0.034005
49.67399	0.001029463	1.6757	0.2242	17.6101002	0.053815
74.75218	0.001549201	2.5432	0.4054	14.9981310	0.067981
100.23692	0.002077359	3.4102	0.5328	13.2806180	0.078487
126.10290	0.002613413	4.2675	0.6302	12.0255725	0.086288
152.83519	0.003167431	5.0946	0.7071	11.0331060	0.091914
182.09715	0.003773871	5.8123	0.7643	10.1743995	0.095553
213.32364	0.004421024	6.4449	0.8092	9.4352470	0.097939
246.37271	0.005105949	7.0244	0.8466	8.7922859	0.099527
280.55820	0.005814425	7.5558	0.8783	8.2361511	0.100529
315.19330	0.006532221	8.0674	0.9067	7.7568754	0.101118
351.50156	0.007284691	8.5096	0.9299	7.3239793	0.101352
388.39130	0.008049212	8.9329	0.9510	6.9411166	0.101352
425.13181	0.008810640	9.3624	0.9714	6.6052714	0.101142
462.55051	0.009586124	9.7703	0.9899	6.3010704	0.100757
499.61353	0.010354235	10.1978	1.0085	6.0308272	0.100171
536.00751	0.011108483	10.6524	1.0274	5.7906636	0.099353
572.98096	0.011874739	11.0826	1.0446	5.5683802	0.098403

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## Dubinin-Astakhov Report

Absolute Pressure (mmHg)	Relative Pressure	Volume Adsorbed (cm <sup>3</sup> /g STP)	Log Volume Adsorbed (cm <sup>3</sup> /g STP)	Log (Po/P)^2.6210	Differential Pore Volume (cm <sup>3</sup> /g-nm)
610.32385	0.012648651	11.5062	1.0609	5.3629185	0.097311
647.18915	0.013412666	11.9436	1.0771	5.1763246	0.096026
683.77917	0.014170975	12.3886	1.0930	5.0050490	0.094565
720.43109	0.014930568	12.8330	1.1083	4.8457220	0.092958
757.25085	0.015693638	13.2636	1.1227	4.6965896	0.091267
792.46869	0.016423510	13.7454	1.1382	4.5630859	0.089225
828.04932	0.017160900	14.2155	1.1528	4.4363551	0.087090

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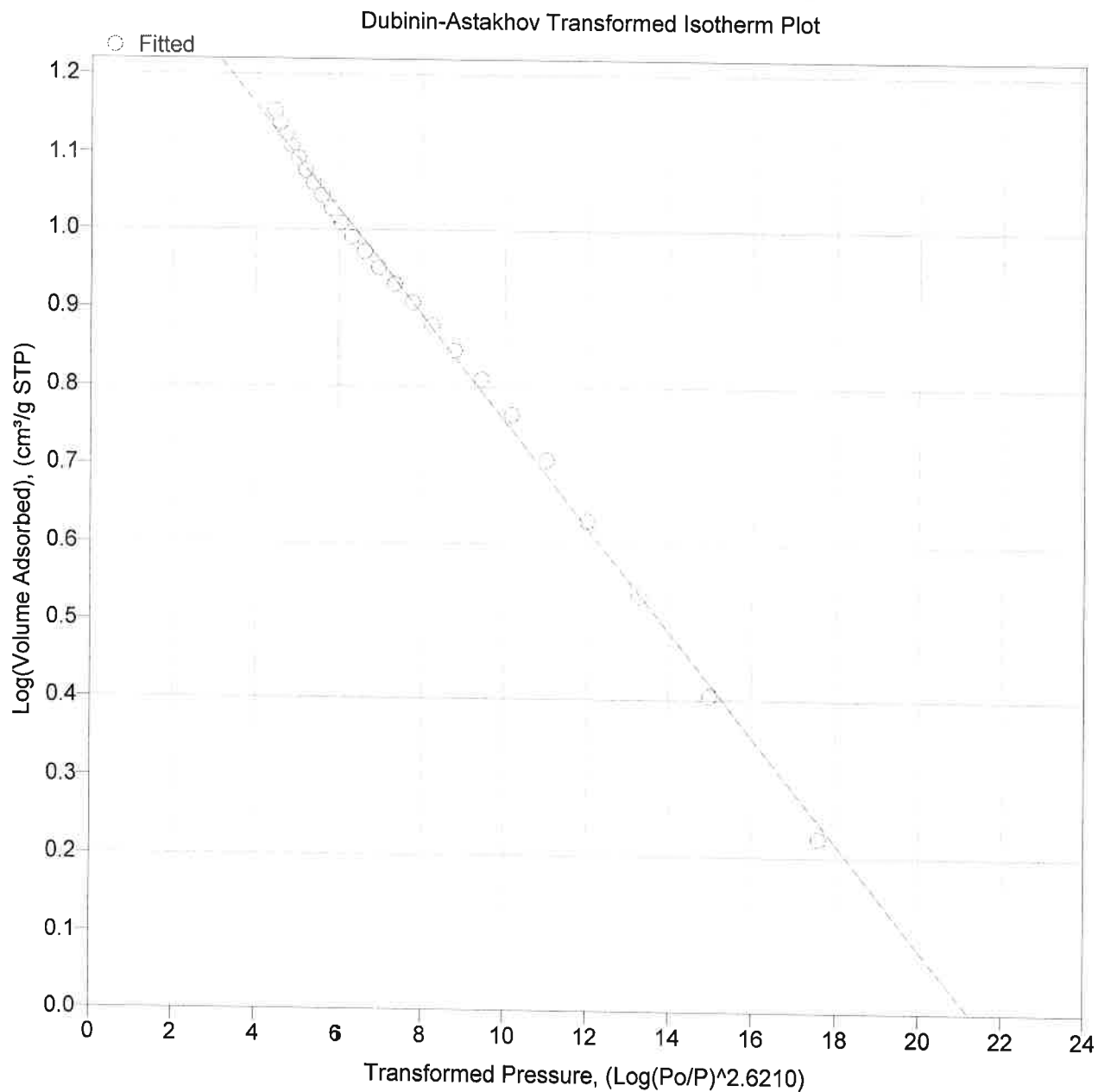
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Dubinin-Astakhov Differential Pore Volume Plot (Exponent = 2.6210)  
+ C:\D\ASAP2010\DATA\001-554.SMP

