

Sample: PT  
Operator: W.S  
Submitter: s/n 212  
File: C:\MicroActive for ASAP 2460\data\UES\PT.SMP

Started: 2016/09/16 8:48:26	Analysis Adsorptive: N2
Completed: 2016/09/16 14:59:52	Analysis Bath Temp.: -195.800 °C
Report Time: 2016/11/24 15:58:54	Thermal Correction: No
Sample Mass: 0.0950 g	Warm Free Space: 17.7145 cm <sup>3</sup> Measured
Cold Free Space: 51.5336 cm <sup>3</sup>	Equilibration Interval: 10 s
Low Pressure Dose: 20.0000 cm <sup>3</sup> /g STP	Sample Density: 1.000 g/cm <sup>3</sup>
Automatic Degas: No	

### Summary Report

#### Surface Area

BET Surface Area: 849.5030 m<sup>2</sup>/g  
Langmuir Surface Area: 967.4594 m<sup>2</sup>/g  
t-Plot Micropore Area: 748.5441 m<sup>2</sup>/g

#### Pore Volume

t-Plot micropore volume: 0.285205 cm<sup>3</sup>/g  
BJH Adsorption cumulative volume of pores  
between 1.7000 nm and 300.0000 nm diameter: 0.037944 cm<sup>3</sup>/g  
BJH Desorption cumulative volume of pores  
between 1.7000 nm and 300.0000 nm diameter: 0.035007 cm<sup>3</sup>/g

#### Pore Size

BJH Adsorption average pore diameter (4V/A): 3.1163 nm  
BJH Desorption average pore diameter (4V/A): 2.8469 nm

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**BJH Adsorption Pore Distribution Report**

Faas Correction

Harkins and Jura

$$t = [ 13.99 / ( 0.034 - \log(P/P_0) ) ] ^{0.5}$$

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 (cm <sup>3</sup> /g)	Cumulative Pore Volume (cm <sup>3</sup> /g)	Incremental Pore Area (m <sup>2</sup> /g)	Cumulative Pore Area (m <sup>2</sup> /g)
359.6 - 188.9	225.2	0.001454	0.001454	0.026	0.026
188.9 - 97.4	116.1	0.001412	0.002866	0.049	0.074
97.4 - 66.2	75.9	0.000945	0.003811	0.050	0.124
66.2 - 50.1	55.9	0.000737	0.004548	0.053	0.177
50.1 - 40.2	44.0	0.000741	0.005289	0.067	0.244
40.2 - 27.3	31.2	0.001372	0.006661	0.176	0.420
27.3 - 20.7	23.0	0.001209	0.007871	0.210	0.631
20.7 - 16.8	18.3	0.000965	0.008836	0.211	0.842
16.8 - 14.0	15.1	0.000713	0.009548	0.188	1.030
14.0 - 13.5	13.7	0.000312	0.009860	0.091	1.121
13.5 - 10.6	11.7	0.000889	0.010748	0.304	1.425
10.6 - 9.4	10.0	0.000359	0.011107	0.144	1.569
9.4 - 9.2	9.3	0.000238	0.011345	0.102	1.672
9.2 - 7.7	8.3	0.000479	0.011824	0.230	1.902
7.7 - 7.1	7.4	0.000132	0.011956	0.072	1.974
7.1 - 6.9	7.0	0.000211	0.012167	0.120	2.094
6.9 - 6.4	6.6	0.000278	0.012445	0.168	2.262
6.4 - 5.6	5.9	0.000250	0.012695	0.169	2.431
5.6 - 5.2	5.4	0.000283	0.012979	0.211	2.642
5.2 - 5.1	5.2	0.000157	0.013135	0.121	2.763
5.1 - 4.6	4.8	0.000273	0.013408	0.227	2.990
4.6 - 4.3	4.4	0.000170	0.013578	0.153	3.143
4.3 - 4.0	4.2	0.000314	0.013891	0.302	3.445
4.0 - 3.8	3.9	0.000274	0.014165	0.280	3.725
3.8 - 3.6	3.7	0.000379	0.014544	0.410	4.135
3.6 - 3.4	3.5	0.000419	0.014963	0.479	4.614
3.4 - 3.2	3.3	0.000488	0.015451	0.591	5.204
3.2 - 3.0	3.1	0.000610	0.016061	0.781	5.985
3.0 - 2.9	3.0	0.000652	0.016712	0.880	6.866
2.9 - 2.7	2.8	0.000916	0.017628	1.307	8.172
2.7 - 2.6	2.7	0.001049	0.018677	1.580	9.752
2.6 - 2.4	2.5	0.001321	0.019998	2.103	11.855
2.4 - 2.3	2.4	0.001531	0.021530	2.576	14.431
2.3 - 2.2	2.2	0.001828	0.023357	3.253	17.683
2.2 - 2.1	2.1	0.002300	0.025658	4.336	22.020
2.1 - 1.9	2.0	0.002874	0.028531	5.750	27.770

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1.9 - 1.8	1.9	0.003881	0.032413	8.278	36.049
1.8 - 1.7	1.7	0.005532	0.037944	12.657	48.705