

Sample: KD-PWSP
Operator:
Submitter: s/n 212
File: C:\MicroActive for ASAP 2460\data\UCG-K...\KD-PWSP.SMP

Started: 2015/06/22 8:12:11	Analysis Adsorptive: N2
Completed: 2015/06/22 15:46:43	Analysis Bath Temp.: -195.800 °C
Report Time: 2015/06/22 17:09:38	Thermal Correction: No
Sample Mass: 0.0970 g	Warm Free Space: 17.5182 cm ³ Measured
Cold Free Space: 50.9157 cm ³	Equilibration Interval: 10 s
Low Pressure Dose: 20.0000 cm ³ /g STP	Sample Density: 1.000 g/cm ³
Automatic Degas: No	

Summary Report

Surface Area

BET Surface Area: 1,323.8053 m²/g
Langmuir Surface Area: 1,603.0034 m²/g
t-Plot Micropore Area: 1,086.9424 m²/g

Pore Volume

t-Plot micropore volume: 0.421466 cm³/g
BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.107830 cm³/g
BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.106305 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 3.5813 nm
BJH Desorption average pore diameter (4V/A): 3.4444 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 ³ /g)	Cumulative Pore Volume (cm ³ /g)	Incremental Pore Area (m ² /g)	Cumulative Pore Area (m ² /g)
298.1 - 166.1	196.9	0.005761	0.005761	0.117	0.117
166.1 - 93.9	111.0	0.005346	0.011106	0.193	0.310
93.9 - 65.2	74.3	0.003378	0.014484	0.182	0.491
65.2 - 49.7	55.3	0.002583	0.017067	0.187	0.678
49.7 - 39.6	43.4	0.002404	0.019471	0.221	0.900
39.6 - 27.1	30.9	0.004332	0.023804	0.561	1.460
27.1 - 20.6	22.9	0.003460	0.027264	0.604	2.064
20.6 - 16.7	18.2	0.002816	0.030080	0.619	2.683
16.7 - 14.0	15.1	0.002300	0.032381	0.610	3.293
14.0 - 12.1	12.9	0.001948	0.034329	0.605	3.898
12.1 - 10.6	11.2	0.001613	0.035942	0.575	4.473
10.6 - 9.4	9.9	0.001493	0.037435	0.601	5.073
9.4 - 8.5	8.9	0.001293	0.038728	0.581	5.654
8.5 - 7.7	8.1	0.001236	0.039964	0.613	6.267
7.7 - 7.1	7.4	0.001140	0.041104	0.620	6.887
7.1 - 6.5	6.8	0.001147	0.042251	0.679	7.567
6.5 - 6.0	6.2	0.001061	0.043312	0.681	8.247
6.0 - 5.6	5.8	0.001072	0.044384	0.742	8.989
5.6 - 5.2	5.4	0.001013	0.045397	0.753	9.742
5.2 - 4.9	5.0	0.001107	0.046504	0.881	10.624
4.9 - 4.6	4.7	0.001130	0.047634	0.961	11.584
4.6 - 4.3	4.4	0.001140	0.048774	1.032	12.616
4.3 - 4.0	4.2	0.001199	0.049973	1.154	13.770
4.0 - 3.8	3.9	0.001285	0.051258	1.312	15.083
3.8 - 3.6	3.7	0.001357	0.052615	1.469	16.551
3.6 - 3.4	3.5	0.001490	0.054106	1.707	18.259
3.4 - 3.2	3.3	0.001691	0.055797	2.049	20.307
3.2 - 3.0	3.1	0.001774	0.057571	2.271	22.578
3.0 - 2.9	3.0	0.001992	0.059563	2.692	25.270
2.9 - 2.7	2.8	0.002258	0.061821	3.220	28.491
2.7 - 2.6	2.7	0.002574	0.064395	3.877	32.367
2.6 - 2.5	2.5	0.002876	0.067271	4.574	36.941
2.5 - 2.3	2.4	0.003363	0.070635	5.651	42.592
2.3 - 2.2	2.3	0.003987	0.074621	7.080	49.672
2.2 - 2.1	2.1	0.004673	0.079295	8.777	58.449
2.1 - 2.0	2.0	0.006271	0.085566	12.491	70.940

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2.0 - 1.8	1.9	0.008860	0.094427	18.833	89.773
1.8 - 1.7	1.7	0.013403	0.107830	30.665	120.438