

Sample: USG-PT-SX
Operator:
Submitter: s/n 212
File: C:\MicroActive for ASAP 2460\data\UC...\USG-PT-SX..SMP

Started: 2015/06/18 11:37:01	Analysis Adsorptive: N2
Completed: 2015/06/18 21:30:36	Analysis Bath Temp.: -195.800 °C
Report Time: 2015/06/19 8:07:43	Thermal Correction: No
Sample Mass: 0.1090 g	Warm Free Space: 17.3284 cm ³ Measured
Cold Free Space: 50.3868 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: 1,511.3530 m²/g
Langmuir Surface Area: 1,881.4899 m²/g
t-Plot Micropore Area: 1,131.5058 m²/g

Pore Volume

t-Plot micropore volume: 0.441630 cm³/g
BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.151175 cm³/g
BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.149238 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 3.2681 nm
BJH Desorption average pore diameter (4V/A): 3.2340 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)
300.9 - 160.6	191.2	0.004209	0.004209	0.088	0.088
160.6 - 90.4	106.9	0.005177	0.009386	0.194	0.282
90.4 - 63.5	72.3	0.004038	0.013423	0.224	0.505
63.5 - 49.0	54.3	0.003326	0.016750	0.245	0.750
49.0 - 38.5	42.5	0.003504	0.020253	0.330	1.080
38.5 - 26.5	30.2	0.007124	0.027378	0.942	2.023
26.5 - 20.3	22.6	0.006439	0.033817	1.142	3.164
20.3 - 16.5	18.0	0.005195	0.039012	1.154	4.318
16.5 - 13.9	15.0	0.003767	0.042779	1.005	5.322
13.9 - 12.0	12.8	0.002772	0.045551	0.864	6.187
12.0 - 10.6	11.2	0.002195	0.047746	0.784	6.971
10.6 - 9.4	9.9	0.001735	0.049482	0.700	7.670
9.4 - 8.5	8.9	0.001483	0.050965	0.667	8.337
8.5 - 7.7	8.1	0.001371	0.052336	0.681	9.018
7.7 - 7.0	7.3	0.001195	0.053531	0.650	9.669
7.0 - 6.5	6.7	0.001205	0.054736	0.715	10.383
6.5 - 6.0	6.2	0.001077	0.055812	0.691	11.075
6.0 - 5.6	5.8	0.001185	0.056998	0.821	11.895
5.6 - 5.2	5.4	0.001196	0.058194	0.890	12.785
5.2 - 4.9	5.0	0.001238	0.059432	0.986	13.771
4.9 - 4.6	4.7	0.001208	0.060640	1.028	14.799
4.6 - 4.3	4.4	0.001325	0.061965	1.200	15.999
4.3 - 4.0	4.2	0.001418	0.063384	1.366	17.365
4.0 - 3.8	3.9	0.001571	0.064955	1.606	18.971
3.8 - 3.6	3.7	0.001681	0.066635	1.820	20.791
3.6 - 3.4	3.5	0.001834	0.068469	2.102	22.892
3.4 - 3.2	3.3	0.002113	0.070582	2.562	25.454
3.2 - 3.0	3.1	0.002257	0.072839	2.892	28.346
3.0 - 2.9	3.0	0.002453	0.075293	3.317	31.663
2.9 - 2.7	2.8	0.002883	0.078175	4.113	35.776
2.7 - 2.6	2.7	0.003217	0.081392	4.846	40.622
2.6 - 2.5	2.5	0.003692	0.085083	5.873	46.495
2.5 - 2.3	2.4	0.004186	0.089269	7.028	53.524
2.3 - 2.2	2.3	0.004803	0.094073	8.504	62.028
2.2 - 2.1	2.1	0.006076	0.100149	11.345	73.373
2.1 - 2.0	2.0	0.009547	0.109697	18.923	92.296

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2.0 - 1.8	1.9	0.015699	0.125396	33.384	125.680
1.8 - 1.7	1.7	0.025779	0.151175	59.352	185.032