

Sample: USF
Operator: M.H
Submitter: s/n 212
File: C:\MicroActive for ASAP 2460\data\UES\USF.SMP

Started: 2015/10/02 17:05:10	Analysis Adsorptive: N2
Completed: 2015/10/03 3:53:25	Analysis Bath Temp.: -195.800 °C
Report Time: 2016/11/24 17:32:54	Thermal Correction: No
Sample Mass: 0.0990 g	Warm Free Space: 17.9957 cm ³ Measured
Cold Free Space: 52.7019 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: 1,637.7213 m²/g

Langmuir Surface Area: 2,547.7284 m²/g

t-Plot Micropore Area: 890.9814 m²/g

Pore Volume

t-Plot micropore volume: 0.365041 cm³/g

BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.538004 cm³/g

BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.518015 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 4.9047 nm

BJH Desorption average pore diameter (4V/A): 5.0829 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)
178.1 - 135.1	150.7	0.040110	0.040110	1.065	1.065
135.1 - 78.1	92.0	0.068822	0.108932	2.991	4.056
78.1 - 60.9	67.3	0.027774	0.136706	1.650	5.707
60.9 - 48.4	53.1	0.022711	0.159417	1.710	7.417
48.4 - 39.8	43.2	0.018787	0.178204	1.740	9.156
39.8 - 25.8	29.8	0.036819	0.215023	4.947	14.104
25.8 - 20.0	22.2	0.018853	0.233876	3.404	17.508
20.0 - 16.4	17.8	0.014036	0.247912	3.153	20.661
16.4 - 13.8	14.9	0.011145	0.259056	3.000	23.662
13.8 - 12.0	12.7	0.009155	0.268211	2.873	26.535
12.0 - 10.5	11.1	0.007875	0.276086	2.828	29.363
10.5 - 9.4	9.9	0.006987	0.283073	2.829	32.192
9.4 - 8.4	8.9	0.006327	0.289400	2.857	35.049
8.4 - 7.7	8.0	0.005573	0.294974	2.776	37.825
7.7 - 7.0	7.3	0.005353	0.300327	2.921	40.745
7.0 - 6.5	6.7	0.005552	0.305879	3.300	44.046
6.5 - 6.0	6.2	0.004944	0.310823	3.182	47.228
6.0 - 5.6	5.8	0.004926	0.315748	3.419	50.647
5.6 - 5.2	5.4	0.004741	0.320490	3.534	54.181
5.2 - 4.9	5.0	0.004686	0.325176	3.739	57.920
4.9 - 4.6	4.7	0.004772	0.329948	4.066	61.985
4.6 - 4.3	4.4	0.004788	0.334736	4.344	66.329
4.3 - 4.0	4.1	0.004851	0.339587	4.677	71.007
4.0 - 3.8	3.9	0.005001	0.344587	5.117	76.124
3.8 - 3.6	3.7	0.005209	0.349797	5.649	81.772
3.6 - 3.4	3.5	0.005435	0.355232	6.238	88.010
3.4 - 3.2	3.3	0.005724	0.360956	6.946	94.957
3.2 - 3.0	3.1	0.006175	0.367131	7.920	102.876
3.0 - 2.9	3.0	0.006330	0.373461	8.558	111.434
2.9 - 2.7	2.8	0.007312	0.380773	10.419	121.853
2.7 - 2.6	2.7	0.008163	0.388936	12.277	134.131
2.6 - 2.5	2.5	0.008913	0.397849	14.135	148.265
2.5 - 2.3	2.4	0.009938	0.407787	16.597	164.863
2.3 - 2.2	2.3	0.011980	0.419767	21.080	185.943
2.2 - 2.1	2.1	0.016114	0.435881	29.999	215.942
2.1 - 2.0	2.0	0.023163	0.459044	45.981	261.922

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2.0 - 1.8	1.9	0.032817	0.491861	70.049	331.972
1.8 - 1.7	1.7	0.046143	0.538004	106.797	438.769