

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

Started: 2016/11/24 14:27:20	Analysis Adsorptive: N2
Completed: 2016/11/24 20:57:04	Analysis Bath Temp.: -195.800 °C
Report Time: 2016/11/25 7:40:54	Thermal Correction: No
Sample Mass: 0.1195 g	Warm Free Space: 18.0427 cm ³ Measured
Cold Free Space: 51.4662 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: 615.5340 m²/g
Langmuir Surface Area: 798.8047 m²/g
t-Plot Micropore Area: 501.0335 m²/g

Pore Volume

t-Plot micropore volume: 0.193896 cm³/g
BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.100623 cm³/g
BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.099684 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 6.0700 nm
BJH Desorption average pore diameter (4V/A): 5.7981 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)
184.5 - 128.8	146.9	0.016890	0.016890	0.460	0.460
128.8 - 87.5	100.3	0.011026	0.027916	0.440	0.899
87.5 - 63.8	71.9	0.006518	0.034434	0.363	1.262
63.8 - 49.2	54.5	0.004149	0.038583	0.304	1.566
49.2 - 39.0	42.9	0.003302	0.041884	0.308	1.874
39.0 - 27.0	30.8	0.004726	0.046611	0.615	2.489
27.0 - 20.6	22.9	0.003304	0.049915	0.577	3.066
20.6 - 16.7	18.2	0.002644	0.052559	0.581	3.647
16.7 - 14.0	15.1	0.002165	0.054724	0.574	4.221
14.0 - 12.1	12.9	0.001810	0.056535	0.562	4.783
12.1 - 10.6	11.2	0.001660	0.058195	0.592	5.374
10.6 - 9.4	9.9	0.001471	0.059665	0.592	5.966
9.4 - 8.5	8.9	0.001315	0.060980	0.590	6.557
8.5 - 7.7	8.1	0.001250	0.062230	0.620	7.177
7.7 - 7.1	7.4	0.001177	0.063407	0.640	7.817
7.1 - 6.5	6.8	0.001060	0.064467	0.628	8.444
6.5 - 6.0	6.2	0.001016	0.065482	0.652	9.096
6.0 - 5.6	5.8	0.000951	0.066434	0.658	9.754
5.6 - 5.2	5.4	0.000911	0.067345	0.677	10.432
5.2 - 4.9	5.0	0.000938	0.068283	0.747	11.179
4.9 - 4.6	4.7	0.000895	0.069178	0.761	11.939
4.6 - 4.3	4.4	0.000919	0.070097	0.832	12.771
4.3 - 4.0	4.2	0.000893	0.070990	0.859	13.630
4.0 - 3.8	3.9	0.000922	0.071912	0.941	14.572
3.8 - 3.6	3.7	0.000953	0.072865	1.031	15.603
3.6 - 3.4	3.5	0.001008	0.073873	1.154	16.757
3.4 - 3.2	3.3	0.001076	0.074948	1.303	18.059
3.2 - 3.0	3.1	0.001185	0.076133	1.516	19.576
3.0 - 2.9	3.0	0.001227	0.077360	1.658	21.234
2.9 - 2.7	2.8	0.001371	0.078731	1.955	23.189
2.7 - 2.6	2.7	0.001476	0.080206	2.223	25.412
2.6 - 2.4	2.5	0.001661	0.081868	2.643	28.055
2.4 - 2.3	2.4	0.001829	0.083696	3.075	31.130
2.3 - 2.2	2.2	0.002090	0.085786	3.718	34.847
2.2 - 2.1	2.1	0.002476	0.088262	4.663	39.511
2.1 - 1.9	2.0	0.002990	0.091252	5.977	45.488

UES - UEDA ENVIRONMENTAL SOLUTIONS

MicroActive for ASAP 2460 2.01

MicroActive for ASAP 2460 Version 2.01
Serial # 212 Unit 1 Port 2

Page 3

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1.9 - 1.8	1.9	0.003936	0.095188	8.388	53.875
1.8 - 1.7	1.7	0.005435	0.100623	12.433	66.309