

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

Started: 2015/06/13 8:00:27	Analysis Adsorptive: N2
Completed: 2015/06/13 14:36:17	Analysis Bath Temp.: -195.800 °C
Report Time: 2016/11/24 17:34:39	Thermal Correction: No
Sample Mass: 0.0810 g	Warm Free Space: 17.3711 cm <sup>3</sup> Measured
Cold Free Space: 50.3178 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: 1,095.6926 m<sup>2</sup>/g  
Langmuir Surface Area: 1,238.6991 m<sup>2</sup>/g  
t-Plot Micropore Area: 974.2915 m<sup>2</sup>/g

#### Pore Volume

t-Plot micropore volume: 0.371417 cm<sup>3</sup>/g  
BJH Adsorption cumulative volume of pores  
between 1.7000 nm and 300.0000 nm diameter: 0.041982 cm<sup>3</sup>/g  
BJH Desorption cumulative volume of pores  
between 1.7000 nm and 300.0000 nm diameter: 0.040175 cm<sup>3</sup>/g

#### Pore Size

BJH Adsorption average pore diameter (4V/A): 2.8238 nm  
BJH Desorption average pore diameter (4V/A): 2.6547 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)
355.8 - 185.1	220.9	0.001099	0.001099	0.020	0.020
185.1 - 96.9	115.4	0.001072	0.002171	0.037	0.057
96.9 - 65.5	75.2	0.000672	0.002843	0.036	0.093
65.5 - 50.1	55.7	0.000567	0.003410	0.041	0.134
50.1 - 40.3	44.1	0.000513	0.003923	0.047	0.180
40.3 - 35.4	37.5	0.000516	0.004439	0.055	0.235
35.4 - 20.7	24.2	0.001588	0.006027	0.262	0.498
20.7 - 16.7	18.2	0.000758	0.006785	0.166	0.664
16.7 - 15.9	16.3	0.000383	0.007168	0.094	0.758
15.9 - 12.1	13.4	0.000945	0.008113	0.282	1.039
12.1 - 10.6	11.2	0.000454	0.008566	0.162	1.201
10.6 - 10.3	10.4	0.000286	0.008852	0.109	1.311
10.3 - 8.5	9.2	0.000505	0.009357	0.220	1.530
8.5 - 7.7	8.1	0.000227	0.009584	0.112	1.643
7.7 - 7.5	7.6	0.000225	0.009809	0.118	1.761
7.5 - 6.9	7.2	0.000301	0.010110	0.167	1.928
6.9 - 6.0	6.4	0.000310	0.010421	0.194	2.122
6.0 - 5.6	5.8	0.000225	0.010645	0.156	2.278
5.6 - 5.5	5.5	0.000104	0.010750	0.075	2.353
5.5 - 5.1	5.3	0.000368	0.011118	0.278	2.631
5.1 - 4.6	4.8	0.000378	0.011496	0.314	2.945
4.6 - 4.3	4.4	0.000234	0.011730	0.212	3.157
4.3 - 4.0	4.2	0.000426	0.012156	0.410	3.568
4.0 - 3.8	3.9	0.000352	0.012508	0.359	3.927
3.8 - 3.6	3.7	0.000529	0.013037	0.572	4.499
3.6 - 3.4	3.5	0.000517	0.013553	0.592	5.091
3.4 - 3.2	3.3	0.000684	0.014237	0.829	5.920
3.2 - 3.0	3.1	0.000762	0.015000	0.976	6.896
3.0 - 2.9	3.0	0.001035	0.016035	1.400	8.296
2.9 - 2.7	2.8	0.001058	0.017093	1.510	9.806
2.7 - 2.6	2.7	0.001251	0.018344	1.885	11.692
2.6 - 2.4	2.5	0.001500	0.019843	2.387	14.079
2.4 - 2.3	2.4	0.001884	0.021727	3.169	17.248
2.3 - 2.2	2.2	0.002400	0.024127	4.272	21.520
2.2 - 2.1	2.1	0.002868	0.026995	5.407	26.927
2.1 - 1.9	2.0	0.003526	0.030521	7.057	33.984

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1.9 - 1.8	1.9	0.004839	0.035360	10.323	44.307
1.8 - 1.7	1.7	0.006623	0.041982	15.163	59.470