

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

Started: 2015/06/15 17:22:33	Analysis Adsorptive: N2
Completed: 2015/06/16 0:17:21	Analysis Bath Temp.: -195.800 °C
Report Time: 2015/06/18 9:11:00	Thermal Correction: No
Sample Mass: 0.0980 g	Warm Free Space: 17.8338 cm ³ Measured
Cold Free Space: 51.7172 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: 1,236.6336 m²/g
Langmuir Surface Area: 1,423.0342 m²/g
t-Plot Micropore Area: 1,074.8513 m²/g

Pore Volume

t-Plot micropore volume: 0.412253 cm³/g
BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.057911 cm³/g
BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.056844 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 2.8913 nm
BJH Desorption average pore diameter (4V/A): 2.7959 nm

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

Started: 2015/06/15 17:22:33	Analysis Adsorptive: N2
Completed: 2015/06/16 0:17:21	Analysis Bath Temp.: -195.800 °C
Report Time: 2015/06/18 9:11:00	Thermal Correction: No
Sample Mass: 0.0980 g	Warm Free Space: 17.8338 cm ³ Measured
Cold Free Space: 51.7172 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	

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)
356.9 - 185.9	221.8	0.001408	0.001408	0.025	0.025
185.9 - 96.2	114.6	0.001611	0.003019	0.056	0.082
96.2 - 65.7	75.2	0.001069	0.004088	0.057	0.138
65.7 - 49.8	55.5	0.000835	0.004923	0.060	0.199
49.8 - 39.9	43.7	0.000790	0.005712	0.072	0.271
39.9 - 27.1	31.0	0.001421	0.007134	0.183	0.454
27.1 - 20.7	23.0	0.001177	0.008311	0.205	0.659
20.7 - 16.7	18.2	0.000969	0.009280	0.212	0.872
16.7 - 14.0	15.1	0.000813	0.010093	0.215	1.087
14.0 - 12.1	12.9	0.000714	0.010807	0.222	1.309
12.1 - 10.6	11.2	0.000638	0.011445	0.227	1.536
10.6 - 9.4	9.9	0.000526	0.011971	0.212	1.747
9.4 - 8.5	8.9	0.000506	0.012477	0.227	1.975
8.5 - 7.7	8.1	0.000505	0.012983	0.251	2.225
7.7 - 7.1	7.4	0.000450	0.013432	0.244	2.470
7.1 - 6.5	6.8	0.000483	0.013915	0.286	2.756
6.5 - 6.0	6.2	0.000455	0.014371	0.292	3.049
6.0 - 5.6	5.8	0.000483	0.014853	0.334	3.383
5.6 - 5.2	5.4	0.000466	0.015319	0.346	3.729
5.2 - 4.9	5.0	0.000549	0.015868	0.437	4.166
4.9 - 4.6	4.7	0.000573	0.016441	0.487	4.653
4.6 - 4.3	4.4	0.000667	0.017109	0.604	5.257
4.3 - 4.0	4.2	0.000657	0.017766	0.633	5.890
4.0 - 3.8	3.9	0.000751	0.018517	0.767	6.657
3.8 - 3.6	3.7	0.000846	0.019364	0.916	7.573
3.6 - 3.4	3.5	0.000947	0.020311	1.085	8.658
3.4 - 3.2	3.3	0.001074	0.021385	1.301	9.959
3.2 - 3.0	3.1	0.001262	0.022646	1.615	11.574
3.0 - 2.9	3.0	0.001354	0.024000	1.830	13.404
2.9 - 2.7	2.8	0.001642	0.025642	2.343	15.747
2.7 - 2.6	2.7	0.001775	0.027418	2.675	18.422
2.6 - 2.4	2.5	0.002209	0.029627	3.515	21.938
2.4 - 2.3	2.4	0.002391	0.032018	4.022	25.960
2.3 - 2.2	2.2	0.002952	0.034970	5.251	31.211
2.2 - 2.1	2.1	0.003424	0.038393	6.447	37.659
2.1 - 1.9	2.0	0.004348	0.042742	8.689	46.348

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

Started: 2015/06/15 17:22:33
Completed: 2015/06/16 0:17:21
Report Time: 2015/06/18 9:11:00
Sample Mass: 0.0980 g
Cold Free Space: 51.7172 cm³
Low Pressure Dose: 20.0000 cm³/g STP
Automatic Degas: No

Analysis Adsorptive: N2
Analysis Bath Temp.: -195.800 °C
Thermal Correction: No
Warm Free Space: 17.8338 cm³ Measured
Equilibration Interval: 10 s
Sample Density: 1.000 g/cm³

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)
1.9 - 1.8	1.9	0.006147	0.048888	13.102	59.450
1.8 - 1.7	1.7	0.009023	0.057911	20.670	80.120