

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

Started: 2016/11/25 14:34:52	Analysis Adsorptive: N2
Completed: 2016/11/25 20:11:09	Analysis Bath Temp.: -195.800 °C
Report Time: 2016/11/29 10:54:06	Thermal Correction: No
Sample Mass: 0.0861 g	Warm Free Space: 17.9751 cm ³ Measured
Cold Free Space: 51.2023 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: 917.7786 m²/g
Langmuir Surface Area: 1,095.4412 m²/g
t-Plot Micropore Area: 710.6223 m²/g

Pore Volume

t-Plot micropore volume: 0.275292 cm³/g
BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.065439 cm³/g
BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.064344 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 2.7791 nm
BJH Desorption average pore diameter (4V/A): 2.6505 nm

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

Started: 2016/11/25 14:34:52	Analysis Adsorptive: N2
Completed: 2016/11/25 20:11:09	Analysis Bath Temp.: -195.800 °C
Report Time: 2016/11/29 10:54:06	Thermal Correction: No
Sample Mass: 0.0861 g	Warm Free Space: 17.9751 cm ³ Measured
Cold Free Space: 51.2023 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)
362.2 - 183.5	219.4	0.001525	0.001525	0.028	0.028
183.5 - 97.2	115.6	0.001560	0.003085	0.054	0.082
97.2 - 65.8	75.5	0.000999	0.004084	0.053	0.135
65.8 - 50.0	55.7	0.000907	0.004991	0.065	0.200
50.0 - 40.1	43.9	0.000893	0.005885	0.081	0.281
40.1 - 27.2	31.1	0.002043	0.007928	0.263	0.544
27.2 - 20.7	23.0	0.001810	0.009738	0.315	0.859
20.7 - 16.7	18.2	0.001408	0.011147	0.309	1.168
16.7 - 14.0	15.1	0.001061	0.012207	0.281	1.449
14.0 - 12.1	12.9	0.000767	0.012974	0.238	1.687
12.1 - 10.6	11.2	0.000699	0.013673	0.249	1.936
10.6 - 9.4	9.9	0.000604	0.014277	0.243	2.179
9.4 - 8.5	8.9	0.000522	0.014799	0.234	2.413
8.5 - 7.7	8.1	0.000491	0.015290	0.244	2.657
7.7 - 7.1	7.4	0.000388	0.015678	0.211	2.868
7.1 - 6.5	6.8	0.000469	0.016147	0.278	3.146
6.5 - 6.0	6.2	0.000343	0.016490	0.220	3.366
6.0 - 5.6	5.8	0.000365	0.016855	0.252	3.618
5.6 - 5.2	5.4	0.000387	0.017242	0.288	3.906
5.2 - 4.9	5.0	0.000422	0.017665	0.336	4.242
4.9 - 4.6	4.7	0.000441	0.018105	0.375	4.617
4.6 - 4.3	4.4	0.000456	0.018561	0.412	5.029
4.3 - 4.0	4.2	0.000573	0.019134	0.552	5.581
4.0 - 3.8	3.9	0.000645	0.019779	0.658	6.239
3.8 - 3.6	3.7	0.000610	0.020389	0.660	6.899
3.6 - 3.4	3.5	0.000840	0.021229	0.962	7.861
3.4 - 3.2	3.3	0.000911	0.022140	1.103	8.964
3.2 - 3.0	3.1	0.001098	0.023238	1.405	10.369
3.0 - 2.9	3.0	0.001299	0.024537	1.756	12.125
2.9 - 2.7	2.8	0.001450	0.025987	2.069	14.194
2.7 - 2.6	2.7	0.001720	0.027707	2.591	16.785
2.6 - 2.4	2.5	0.002076	0.029783	3.303	20.088
2.4 - 2.3	2.4	0.002431	0.032214	4.087	24.175
2.3 - 2.2	2.3	0.003061	0.035275	5.440	29.615
2.2 - 2.1	2.1	0.003833	0.039107	7.207	36.823
2.1 - 1.9	2.0	0.005389	0.044496	10.746	47.568

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

Started: 2016/11/25 14:34:52	Analysis Adsorptive: N2
Completed: 2016/11/25 20:11:09	Analysis Bath Temp.: -195.800 °C
Report Time: 2016/11/29 10:54:06	Thermal Correction: No
Sample Mass: 0.0861 g	Warm Free Space: 17.9751 cm ³ Measured
Cold Free Space: 51.2023 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	

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	0.008118	0.052614	17.268	64.836
1.8 - 1.7	1.7	0.012825	0.065439	29.352	94.188