

Sample: AG  
Operator: w.s  
Submitter: s/n 212  
File: C:\MicroActive for ASAP 2460\data\UES\AG.SMP

Started: 2016/11/22 16:45:21	Analysis Adsorptive: N2
Completed: 2016/11/22 23:01:31	Analysis Bath Temp.: -195.800 °C
Report Time: 2016/11/24 5:32:46	Thermal Correction: No
Sample Mass: 0.0884 g	Warm Free Space: 17.9610 cm <sup>3</sup> Measured
Cold Free Space: 52.7943 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: 1,168.6422 m<sup>2</sup>/g  
Langmuir Surface Area: 1,257.0431 m<sup>2</sup>/g  
t-Plot Micropore Area: 1,081.4521 m<sup>2</sup>/g

#### Pore Volume

t-Plot micropore volume: 0.410598 cm<sup>3</sup>/g  
BJH Adsorption cumulative volume of pores  
between 1.7000 nm and 300.0000 nm diameter: 0.019648 cm<sup>3</sup>/g  
BJH Desorption cumulative volume of pores  
between 1.7000 nm and 300.0000 nm diameter: 0.005276 cm<sup>3</sup>/g

#### Pore Size

BJH Adsorption average pore diameter (4V/A): 2.4199 nm  
BJH Desorption average pore diameter (4V/A): 55.1966 nm

Sample: AG  
Operator: w.s  
Submitter: s/n 212  
File: C:\MicroActive for ASAP 2460\data\UES\AG.SMP

Started: 2016/11/22 16:45:21	Analysis Adsorptive: N2
Completed: 2016/11/22 23:01:31	Analysis Bath Temp.: -195.800 °C
Report Time: 2016/11/24 5:32:46	Thermal Correction: No
Sample Mass: 0.0884 g	Warm Free Space: 17.9610 cm <sup>3</sup> Measured
Cold Free Space: 52.7943 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	

**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)
316.2 - 157.6	192.3	0.001746	0.001746	0.036	0.036
157.6 - 72.5	90.8	0.001264	0.003010	0.056	0.092
72.5 - 41.9	51.5	0.000598	0.003608	0.046	0.138
41.9 - 25.9	31.7	0.000303	0.003911	0.038	0.177
25.9 - 16.0	19.8	0.000177	0.004088	0.036	0.212
16.0 - 3.2	7.1	0.000065	0.004153	0.037	0.249
3.2 - -3.2	-0.9	0.000001	0.004154	-0.005	0.244
-3.2 - -4.4	-3.8	0.000006	0.004160	-0.006	0.238
-4.4 - -7.9	-6.5	0.000035	0.004196	-0.022	0.216
-7.9 - 2.4	2.5	0.000255	0.004451	0.406	0.622
2.4 - 2.3	2.4	0.000715	0.005165	1.202	1.825
2.3 - 2.2	2.2	0.001092	0.006257	1.944	3.768
2.2 - 2.1	2.1	0.001621	0.007878	3.056	6.824
2.1 - 1.9	2.0	0.002458	0.010336	4.917	11.741
1.9 - 1.8	1.9	0.003635	0.013971	7.751	19.492
1.8 - 1.7	1.7	0.005677	0.019648	12.985	32.477