

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

| | |
|---|---|
| Started: 2016/09/14 15:36:45 | Analysis Adsorptive: N2 |
| Completed: 2016/09/14 21:52:37 | Analysis Bath Temp.: -195.800 °C |
| Report Time: 2016/11/24 14:06:25 | Thermal Correction: No |
| Sample Mass: 0.0863 g | Warm Free Space: 17.8713 cm ³ Measured |
| Cold Free Space: 52.6113 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: 1,130.1805 m²/g
Langmuir Surface Area: 1,217.2562 m²/g
t-Plot Micropore Area: 1,045.3953 m²/g

Pore Volume

t-Plot micropore volume: 0.397100 cm³/g

BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.018433 cm³/g

BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.003988 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 2.3030 nm

BJH Desorption average pore diameter (4V/A): 51.2692 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) |
|--------------------------|-----------------------|--|---|---|--|
| 325.6 - 154.5 | 189.6 | 0.001167 | 0.001167 | 0.025 | 0.025 |
| 154.5 - 71.0 | 89.1 | 0.000974 | 0.002141 | 0.044 | 0.068 |
| 71.0 - 40.1 | 49.7 | 0.000454 | 0.002595 | 0.037 | 0.105 |
| 40.1 - 24.4 | 30.1 | 0.000264 | 0.002859 | 0.035 | 0.140 |
| 24.4 - 14.5 | 18.3 | 0.000144 | 0.003003 | 0.031 | 0.171 |
| 14.5 - 1.9 | 5.8 | 0.000038 | 0.003042 | 0.027 | 0.198 |
| 1.9 - -4.6 | -2.2 | 0.000005 | 0.003047 | -0.009 | 0.189 |
| -4.6 - -5.7 | -5.2 | 0.000013 | 0.003060 | -0.010 | 0.179 |
| -5.7 - -9.3 | -7.9 | 0.000046 | 0.003106 | -0.023 | 0.155 |
| -9.3 - 2.4 | 2.5 | 0.000413 | 0.003519 | 0.658 | 0.813 |
| 2.4 - 2.3 | 2.4 | 0.000733 | 0.004252 | 1.233 | 2.046 |
| 2.3 - 2.2 | 2.2 | 0.001126 | 0.005377 | 2.004 | 4.050 |
| 2.2 - 2.1 | 2.1 | 0.001673 | 0.007050 | 3.154 | 7.204 |
| 2.1 - 1.9 | 2.0 | 0.002340 | 0.009390 | 4.683 | 11.886 |
| 1.9 - 1.8 | 1.9 | 0.003549 | 0.012939 | 7.567 | 19.453 |
| 1.8 - 1.7 | 1.7 | 0.005494 | 0.018433 | 12.563 | 32.016 |