

Sample: SDG-7
Operator: W.S
Submitter:
File: C:\MicroActive for ASAP 2460\data\UES\SDG-7-2.SMP

Started: 2025/06/20 8:04:21	Analysis Adsorptive: N2
Completed: 2025/06/20 21:09:51	Analysis Bath Temp.: -195.800 °C
Report Time: 2025/06/23 5:11:35	Thermal Correction: No
Sample Mass: 0.4098 g	Warm Free Space: 17.5874 cm ³ Measured
Cold Free Space: 50.9390 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: 85.8475 m²/g

Langmuir Surface Area: 280.7126 m²/g

t-Plot Micropore Area: 3.0477 m²/g

Pore Volume

t-Plot micropore volume: 0.004312 cm³/g

BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.121401 cm³/g

BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.120432 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 7.5662 nm

BJH Desorption average pore diameter (4V/A): 6.8004 nm

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BJH Adsorption Pore Distribution Report

Faas Correction

Harkins and Jura

$$t = [13.99 / (0.034 - \log(P/P_o))] ^{0.5}$$

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)
212.8 - 138.8	160.6	0.008738	0.008738	0.218	0.218
138.8 - 76.2	90.2	0.014864	0.023602	0.659	0.877
76.2 - 58.9	65.3	0.006855	0.030457	0.420	1.296
58.9 - 47.4	51.9	0.006220	0.036677	0.480	1.776
47.4 - 39.2	42.5	0.005281	0.041958	0.497	2.273
39.2 - 27.1	30.9	0.009767	0.051725	1.265	3.538
27.1 - 19.7	22.2	0.007807	0.059532	1.408	4.946
19.7 - 16.2	17.6	0.004655	0.064187	1.059	6.004
16.2 - 13.7	14.7	0.003935	0.068122	1.069	7.074
13.7 - 11.9	12.6	0.003368	0.071490	1.066	8.139
11.9 - 10.5	11.1	0.002962	0.074452	1.070	9.210
10.5 - 9.3	9.8	0.002688	0.077139	1.094	10.304
9.3 - 8.4	8.8	0.002428	0.079568	1.101	11.404
8.4 - 7.7	8.0	0.002238	0.081805	1.119	12.523
7.7 - 7.0	7.3	0.002045	0.083850	1.120	13.643
7.0 - 6.5	6.7	0.001884	0.085734	1.122	14.765
6.5 - 6.0	6.2	0.001767	0.087501	1.140	15.905
6.0 - 5.6	5.8	0.001681	0.089182	1.168	17.073
5.6 - 5.2	5.4	0.001589	0.090771	1.186	18.259
5.2 - 4.9	5.0	0.001501	0.092272	1.199	19.458
4.9 - 4.6	4.7	0.001450	0.093721	1.236	20.693
4.6 - 4.3	4.4	0.001438	0.095160	1.306	21.999
4.3 - 4.0	4.1	0.001396	0.096556	1.347	23.346
4.0 - 3.8	3.9	0.001342	0.097898	1.373	24.720
3.8 - 3.6	3.7	0.001341	0.099238	1.454	26.174
3.6 - 3.4	3.5	0.001340	0.100578	1.538	27.711
3.4 - 3.2	3.3	0.001355	0.101933	1.645	29.357
3.2 - 3.0	3.1	0.001375	0.103308	1.763	31.120
3.0 - 2.9	3.0	0.001344	0.104652	1.817	32.937
2.9 - 2.7	2.8	0.001444	0.106095	2.059	34.995
2.7 - 2.6	2.7	0.001512	0.107607	2.276	37.271
2.6 - 2.5	2.5	0.001575	0.109182	2.504	39.776
2.5 - 2.3	2.4	0.001672	0.110854	2.812	42.587
2.3 - 2.2	2.2	0.001808	0.112662	3.221	45.809
2.2 - 2.1	2.1	0.001917	0.114579	3.625	49.433
2.1 - 1.9	2.0	0.002074	0.116653	4.171	53.604

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1.9 - 1.8	1.9	0.002247	0.118900	4.821	58.425
1.8 - 1.7	1.7	0.002501	0.121401	5.755	64.180