

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

Started: 2025/06/10 8:13:13	Analysis Adsorptive: N2
Completed: 2025/06/11 3:33:04	Analysis Bath Temp.: -195.800 °C
Report Time: 2025/06/23 5:36:45	Thermal Correction: No
Sample Mass: 0.5006 g	Warm Free Space: 17.8045 cm ³ Measured
Cold Free Space: 51.5233 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: 157.8840 m²/g

Langmuir Surface Area: 451.5161 m²/g

t-Plot Micropore Area: 28.6285 m²/g

Pore Volume

t-Plot micropore volume: 0.014807 cm³/g

BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.182307 cm³/g

BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.178790 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 7.4782 nm

BJH Desorption average pore diameter (4V/A): 6.9712 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)
195.5 - 126.4	146.5	0.015082	0.015082	0.412	0.412
126.4 - 81.7	94.6	0.017363	0.032445	0.734	1.146
81.7 - 54.7	62.8	0.017998	0.050443	1.146	2.292
54.7 - 44.8	48.7	0.008878	0.059320	0.729	3.021
44.8 - 36.9	40.1	0.008304	0.067624	0.829	3.850
36.9 - 26.4	29.9	0.013858	0.081482	1.857	5.706
26.4 - 20.2	22.4	0.010060	0.091541	1.796	7.502
20.2 - 15.9	17.5	0.008333	0.099875	1.903	9.405
15.9 - 13.6	14.5	0.005392	0.105266	1.484	10.890
13.6 - 11.7	12.5	0.004627	0.109894	1.480	12.369
11.7 - 10.4	11.0	0.004030	0.113924	1.470	13.840
10.4 - 9.3	9.8	0.003553	0.117477	1.457	15.297
9.3 - 8.4	8.8	0.003202	0.120679	1.460	16.757
8.4 - 7.6	8.0	0.002958	0.123637	1.487	18.244
7.6 - 7.0	7.3	0.002733	0.126370	1.504	19.747
7.0 - 6.4	6.7	0.002549	0.128919	1.525	21.273
6.4 - 6.0	6.2	0.002383	0.131302	1.544	22.817
6.0 - 5.5	5.7	0.002251	0.133553	1.571	24.388
5.5 - 5.2	5.3	0.002196	0.135749	1.646	26.034
5.2 - 4.8	5.0	0.002104	0.137853	1.688	27.722
4.8 - 4.5	4.7	0.002005	0.139858	1.716	29.437
4.5 - 4.3	4.4	0.001975	0.141833	1.800	31.237
4.3 - 4.0	4.1	0.001955	0.143788	1.893	33.129
4.0 - 3.8	3.9	0.001931	0.145719	1.984	35.113
3.8 - 3.6	3.7	0.001916	0.147635	2.085	37.199
3.6 - 3.4	3.5	0.001959	0.149594	2.256	39.455
3.4 - 3.2	3.3	0.002001	0.151595	2.436	41.891
3.2 - 3.0	3.1	0.002066	0.153661	2.658	44.549
3.0 - 2.9	3.0	0.001960	0.155621	2.656	47.205
2.9 - 2.7	2.8	0.002160	0.157781	3.083	50.288
2.7 - 2.6	2.7	0.002240	0.160021	3.374	53.662
2.6 - 2.5	2.5	0.002321	0.162342	3.688	57.350
2.5 - 2.3	2.4	0.002519	0.164861	4.230	61.580
2.3 - 2.2	2.2	0.002789	0.167650	4.961	66.541
2.2 - 2.1	2.1	0.003054	0.170704	5.773	72.314
2.1 - 1.9	2.0	0.003425	0.174129	6.895	79.208

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1.9 - 1.8	1.9	0.003771	0.177900	8.111	87.319
1.8 - 1.7	1.7	0.004407	0.182307	10.195	97.514