

Sample: SDG-5
Operator: W.S
Submitter:
File: C:\MicroActive for ASAP 2460\data\UES\SDG-5.SMP

Started: 2025/06/06 9:59:29	Analysis Adsorptive: N2
Completed: 2025/06/07 2:39:09	Analysis Bath Temp.: -195.800 °C
Report Time: 2025/06/23 5:37:44	Thermal Correction: No
Sample Mass: 0.4864 g	Warm Free Space: 17.8078 cm ³ Measured
Cold Free Space: 52.2529 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: 241.9059 m²/g

Langmuir Surface Area: 570.5087 m²/g

t-Plot Micropore Area: 87.4247 m²/g

Pore Volume

t-Plot micropore volume: 0.039138 cm³/g

BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.183694 cm³/g

BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.182018 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 6.5069 nm

BJH Desorption average pore diameter (4V/A): 6.1785 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)
179.1 - 139.5	154.4	0.007896	0.007896	0.205	0.205
139.5 - 83.2	97.7	0.017907	0.025804	0.733	0.938
83.2 - 56.1	64.4	0.015835	0.041639	0.984	1.922
56.1 - 45.7	49.8	0.008691	0.050330	0.698	2.621
45.7 - 37.3	40.6	0.008246	0.058575	0.812	3.432
37.3 - 26.7	30.2	0.013589	0.072164	1.801	5.233
26.7 - 20.4	22.6	0.010343	0.082507	1.829	7.063
20.4 - 16.0	17.6	0.008801	0.091308	2.001	9.064
16.0 - 13.6	14.5	0.005635	0.096943	1.550	10.614
13.6 - 11.8	12.5	0.004799	0.101742	1.533	12.147
11.8 - 10.4	11.0	0.004226	0.105968	1.540	13.687
10.4 - 9.3	9.8	0.003696	0.109664	1.515	15.202
9.3 - 8.4	8.8	0.003339	0.113004	1.522	16.724
8.4 - 7.6	8.0	0.003054	0.116058	1.534	18.258
7.6 - 7.0	7.3	0.002806	0.118864	1.542	19.800
7.0 - 6.4	6.7	0.002639	0.121503	1.578	21.378
6.4 - 6.0	6.2	0.002482	0.123985	1.606	22.983
6.0 - 5.5	5.7	0.002366	0.126351	1.649	24.633
5.5 - 5.2	5.3	0.002278	0.128629	1.705	26.338
5.2 - 4.8	5.0	0.002174	0.130803	1.741	28.078
4.8 - 4.5	4.7	0.002159	0.132962	1.845	29.923
4.5 - 4.3	4.4	0.002121	0.135083	1.930	31.854
4.3 - 4.0	4.1	0.002081	0.137164	2.012	33.866
4.0 - 3.8	3.9	0.002110	0.139274	2.165	36.031
3.8 - 3.6	3.7	0.002144	0.141418	2.332	38.363
3.6 - 3.4	3.5	0.002081	0.143499	2.393	40.756
3.4 - 3.2	3.3	0.002247	0.145746	2.732	43.488
3.2 - 3.0	3.1	0.002518	0.148264	3.237	46.725
3.0 - 2.9	2.9	0.002401	0.150665	3.259	49.984
2.9 - 2.7	2.8	0.002263	0.152928	3.233	53.217
2.7 - 2.6	2.7	0.002600	0.155528	3.911	57.129
2.6 - 2.5	2.5	0.002700	0.158228	4.283	61.412
2.5 - 2.3	2.4	0.002935	0.161163	4.916	66.328
2.3 - 2.2	2.3	0.003237	0.164400	5.735	72.063
2.2 - 2.1	2.1	0.003805	0.168205	7.158	79.221
2.1 - 1.9	2.0	0.004309	0.172513	8.642	87.863

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1.9 - 1.8	1.9	0.004964	0.177478	10.656	98.519
1.8 - 1.7	1.7	0.006216	0.183694	14.404	112.923