micromeritics®

UES - UEDA ENVIRONMENTAL SOLUTIONS

Sample: SDG-9
Operator: W.S
Submitter:
File: C:\MicroActive for ASAP 2460\data\UES\SDG-9.SMP

Started:	2025/06/18 9:45:00	Analysis Adsorptive:	N2
Completed:	2025/06/19 3:30:35	Analysis Bath Temp.:	-195.800 °C
Report Time:	2025/06/23 5:36:04	Thermal Correction:	No
Sample Mass:	0.4701 g	Warm Free Space:	17.5495 cm³ Measured
Cold Free Space:	50.6536 cm³	Equilibration Interval:	10 s
Low Pressure Dose:	20.0000 cm³/g STP	Sample Density:	1.000 g/cm³
Automatic Degas:	No		

Summary Report

Surface Area

BET Surface Area: 182.8816 m²/g

Langmuir Surface Area: 471.1316 m²/g

t-Plot Micropore Area: 29.3190 m²/g

Pore Volume

t-Plot micropore volume: 0.015991 cm³/g

BJH Adsorption cumulative volume of pores between 1.7000 nm and 300.0000 nm diameter: 0.164666 cm³/g

BJH Desorption cumulative volume of pores between 1.7000 nm and 300.0000 nm diameter: 0.160726 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 5.7808 nm

BJH Desorption average pore diameter (4V/A): 5.3736 nm

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BJH Adsorption Pore Distribution Report

Faas Correction
Harkins and Jura
t = [13.99 / (0.034 - log(P/Po))] ^ 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 (cm³/g)	Cumulative Pore Volume (cm³/g)	Incremental Pore Area (m²/g)	Cumulative Pore Area (m²/g)
201.9 - 143.5	163.0	0.007918	0.007918	0.194	0.194
143.5 - 76.8	91.2	0.016212	0.024130	0.711	0.906
76.8 - 58.4	65.1	0.007947	0.032078	0.489	1.394
58.4 - 46.3	51.0	0.006986	0.039063	0.548	1.943
46.3 - 38.0	41.3	0.006044	0.045107	0.585	2.528
38.0 - 26.6	30.2	0.010508	0.055615	1.391	3.919
26.6 - 19.6	21.9	0.008651	0.064265	1.577	5.496
19.6 - 16.1	17.4	0.005600	0.069865	1.285	6.781
16.1 - 13.6	14.6	0.004815	0.074681	1.317	8.099
13.6 - 11.8	12.6	0.004349	0.079029	1.384	9.483
11.8 - 10.4	11.0	0.003912	0.082941	1.421	10.904
10.4 - 9.3	9.8	0.003651	0.086592	1.494	12.398
9.3 - 8.4	8.8	0.003389	0.089981	1.543	13.941
8.4 - 7.6	8.0	0.003158	0.093139	1.586	15.527
7.6 - 7.0	7.3	0.003011	0.096150	1.655	17.182
7.0 - 6.4	6.7	0.002872	0.099022	1.717	18.898
6.4 - 6.0	6.2	0.002735	0.101757	1.769	20.668
6.0 - 5.5	5.7	0.002638	0.104395	1.839	22.507
5.5 - 5.2	5.3	0.002549	0.106944	1.908	24.414
5.2 - 4.8	5.0	0.002485	0.109429	1.991	26.405
4.8 - 4.5	4.7	0.002417	0.111846	2.066	28.471
4.5 - 4.3	4.4	0.002371	0.114217	2.158	30.629
4.3 - 4.0	4.1	0.002341	0.116558	2.264	32.893
4.0 - 3.8	3.9	0.002350	0.118909	2.412	35.305
3.8 - 3.6	3.7	0.002337	0.121245	2.540	37.845
3.6 - 3.4	3.5	0.002320	0.123565	2.668	40.514
3.4 - 3.2	3.3	0.002389	0.125953	2.906	43.420
3.2 - 3.0	3.1	0.002435	0.128388	3.130	46.550
3.0 - 2.9	2.9	0.002525	0.130914	3.428	49.978
2.9 - 2.7	2.8	0.002375	0.133289	3.392	53.370
2.7 - 2.6	2.7	0.002722	0.136011	4.091	57.461
2.6 - 2.5	2.5	0.002923	0.138934	4.638	62.099
2.5 - 2.3	2.4	0.003201	0.142135	5.369	67.468
2.3 - 2.2	2.2	0.003623	0.145758	6.444	73.912
2.2 - 2.1	2.1	0.003980	0.149738	7.527	81.439
2.1 - 1.9	2.0	0.004367	0.154105	8.799	90.239

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1.9 - 1.8	1.9	0.004804	0.158909	10.348	100.587
1.8 - 1.7	1.7	0.005757	0.164666	13.354	113.940