

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

Started: 2025/06/09 15:02:12	Analysis Adsorptive: N2
Completed: 2025/06/10 1:48:39	Analysis Bath Temp.: -195.800 °C
Report Time: 2025/06/23 5:37:00	Thermal Correction: No
Sample Mass: 0.2475 g	Warm Free Space: 17.6410 cm ³ Measured
Cold Free Space: 51.1987 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: 146.1686 m²/g
Langmuir Surface Area: 410.7470 m²/g
t-Plot Micropore Area: 45.3484 m²/g

Pore Volume

t-Plot micropore volume: 0.021433 cm³/g

BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.164914 cm³/g

BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.163482 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 8.6759 nm

BJH Desorption average pore diameter (4V/A): 7.7835 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)
265.1 - 159.0	186.7	0.014140	0.014140	0.303	0.303
159.0 - 78.1	93.3	0.026803	0.040943	1.149	1.452
78.1 - 59.7	66.4	0.011179	0.052122	0.673	2.125
59.7 - 46.9	51.7	0.010149	0.062270	0.785	2.910
46.9 - 38.1	41.5	0.008709	0.070979	0.839	3.749
38.1 - 25.6	29.3	0.014711	0.085690	2.007	5.756
25.6 - 19.9	22.0	0.007754	0.093444	1.409	7.165
19.9 - 16.4	17.8	0.005635	0.099078	1.267	8.432
16.4 - 13.8	14.9	0.004495	0.103573	1.209	9.641
13.8 - 12.0	12.7	0.003833	0.107406	1.204	10.845
12.0 - 10.5	11.1	0.003352	0.110758	1.205	12.049
10.5 - 9.4	9.9	0.002986	0.113744	1.209	13.259
9.4 - 8.5	8.9	0.002745	0.116488	1.239	14.498
8.5 - 7.7	8.0	0.002543	0.119032	1.267	15.765
7.7 - 7.0	7.3	0.002400	0.121432	1.311	17.076
7.0 - 6.5	6.7	0.002189	0.123621	1.301	18.377
6.5 - 6.0	6.2	0.002047	0.125669	1.317	19.694
6.0 - 5.6	5.8	0.001963	0.127632	1.362	21.056
5.6 - 5.2	5.4	0.001817	0.129449	1.354	22.410
5.2 - 4.9	5.0	0.001752	0.131202	1.397	23.808
4.9 - 4.6	4.7	0.001660	0.132862	1.413	25.221
4.6 - 4.3	4.4	0.001640	0.134501	1.487	26.707
4.3 - 4.0	4.2	0.001560	0.136061	1.503	28.210
4.0 - 3.8	3.9	0.001524	0.137584	1.558	29.768
3.8 - 3.6	3.7	0.001530	0.139114	1.658	31.426
3.6 - 3.4	3.5	0.001505	0.140619	1.725	33.151
3.4 - 3.2	3.3	0.001501	0.142120	1.819	34.970
3.2 - 3.0	3.1	0.001557	0.143676	1.995	36.965
3.0 - 2.9	3.0	0.001532	0.145209	2.072	39.037
2.9 - 2.7	2.8	0.001616	0.146825	2.305	41.341
2.7 - 2.6	2.7	0.001673	0.148498	2.519	43.860
2.6 - 2.5	2.5	0.001775	0.150273	2.823	46.683
2.5 - 2.3	2.4	0.001857	0.152131	3.121	49.804
2.3 - 2.2	2.3	0.002000	0.154131	3.556	53.360
2.2 - 2.1	2.1	0.002227	0.156358	4.198	57.559
2.1 - 1.9	2.0	0.002471	0.158829	4.952	62.511

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1.9 - 1.8	1.9	0.002828	0.161657	6.048	68.559
1.8 - 1.7	1.7	0.003257	0.164914	7.475	76.033