



#### Analysis

Operator: Demo  
Sample ID: HA  
Sample Desc:  
Sample Weight: 0.2009 g  
Approx. Outgas Time: 10.1 hrs  
Analysis gas: Nitrogen  
Analysis Time: 19:56 hr:min  
Analysis Mode: Standard  
VoidVol. Mode: He Measure

Date: 2025/05/20

Filename: SARM2012\_st3\_2025\_05\_20\_09\_02\_44.qps  
Comment:  
Instrument: Autosorb iQ Station 3  
Final Outgas Temp.: 80 °C  
Non-ideality: 6.58e-05 1/Torr  
Bath temp.: 77.35 K  
Cold Zone V: 1.04537 cc

#### Report

Operator: Anton Parr  
Date: 2025/06/25

Extended info: Available  
CellType: 9mm  
VoidVol Remeasure: off  
Warm Zone V: 12.3851 cc

#### Data Reduction Parameters

##### Adsorbate model

Thermal Transpiration: on  
Nitrogen  
Molec. Wt.: 28.013

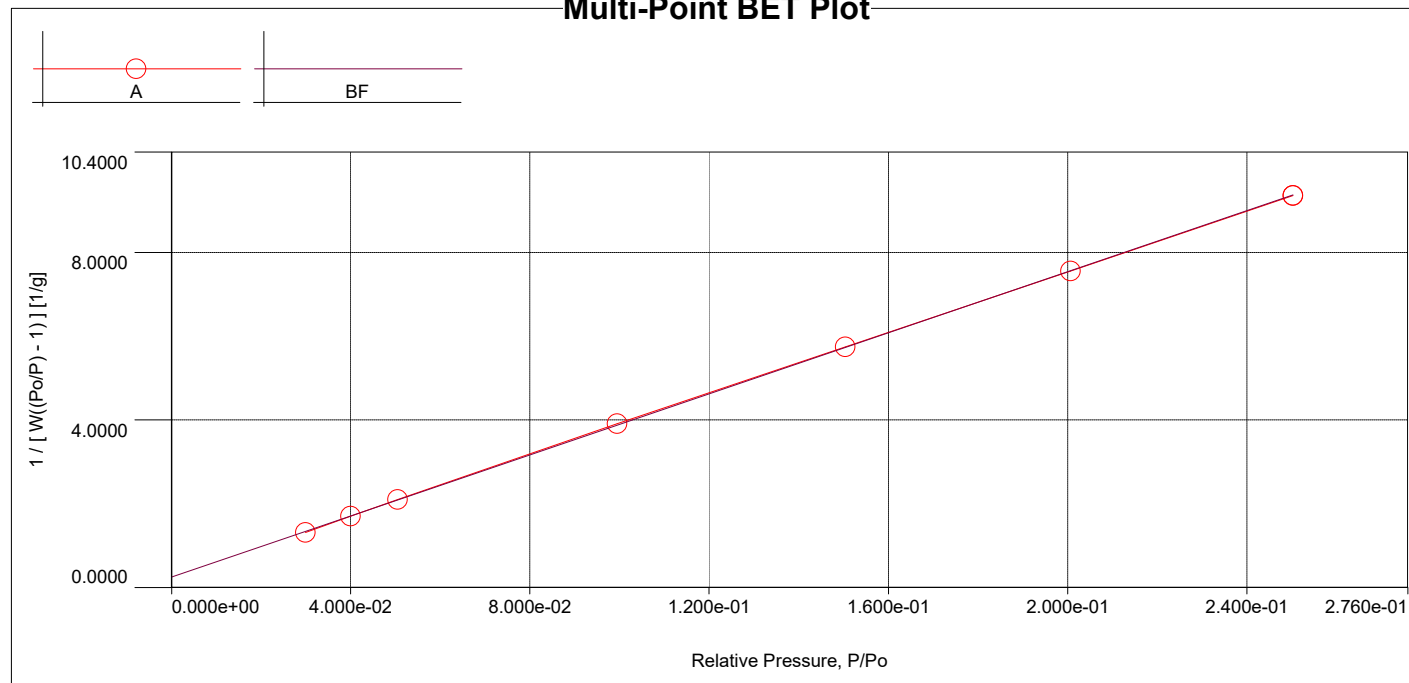
Eff. mol. diameter (D): 3.54 Å  
Temperature: 77.350K  
Cross Section: 16.200 Å²

Eff. cell stem diam. (d): 4.0000 mm  
Liquid Density: 0.808 g/cc

#### MBET summary

Slope = 36.459 1/g  
Intercept = 2.500e-01 1/g  
Correlation coefficient, r = 0.999977  
C constant = 146.821  
Surface Area = 94.869 m²/g

#### Multi-Point BET Plot



#### Multi-Point BET

Relative Pressure [P/Po]	Volume @ STP [cc/g]	1 / [ W((Po/P) - 1) ] [1/g]	Relative Pressure [P/Po]	Volume @ STP [cc/g]	1 / [ W((Po/P) - 1) ] [1/g]
2.99279e-02	18.8339	1.3107e+00	1.50390e-01	24.6379	5.7485e+00
3.99580e-02	19.5873	1.7002e+00	2.00649e-01	26.5795	7.5563e+00
5.05029e-02	20.2498	2.1016e+00	2.50344e-01	28.5315	9.3650e+00
9.94973e-02	22.6062	3.9107e+00			



**Analysis**

Operator:  
Sample ID:

Demo  
HA

Date:2025/05/20

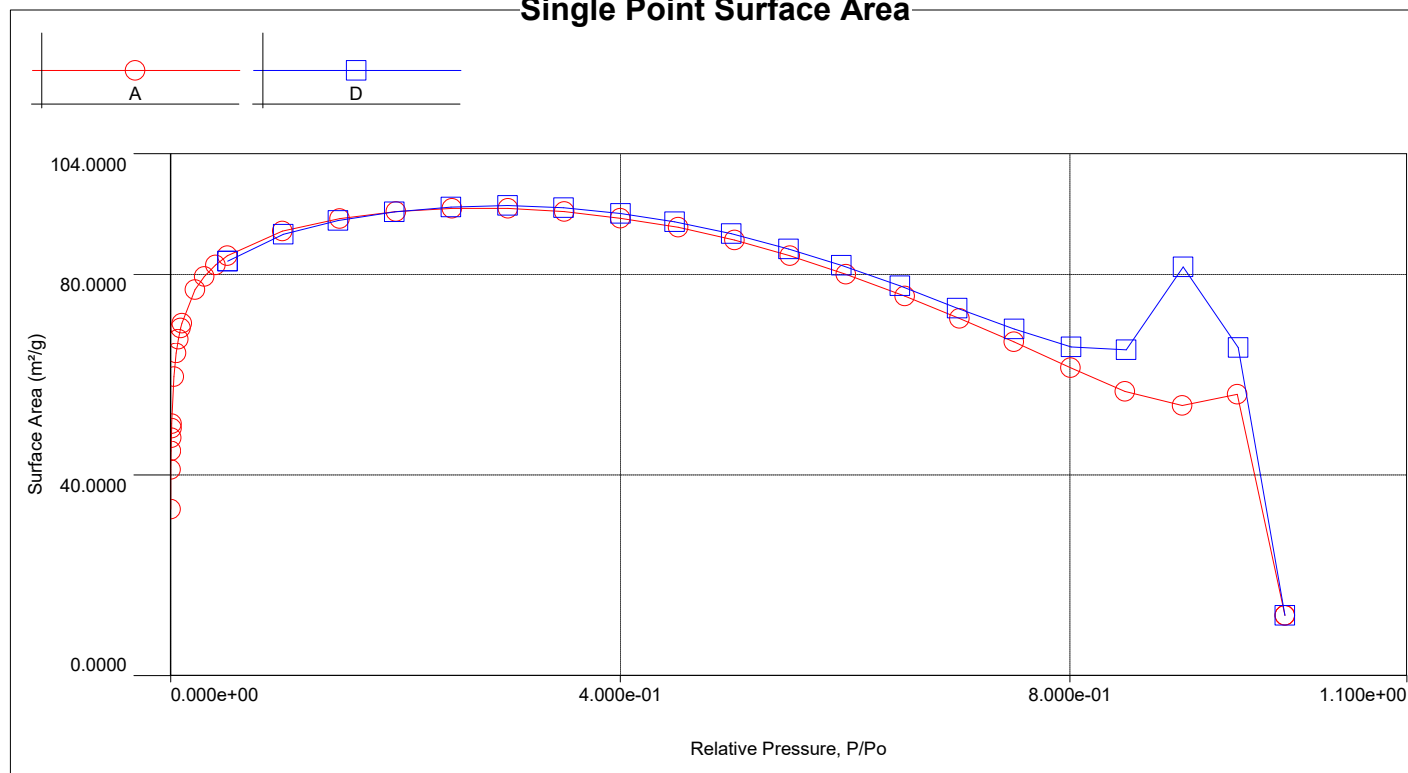
Filename:

**Report**

Operator: Anton Parr  
SARM2012\_st3\_2025\_05\_20\_09\_02\_44.qps

Date:2025/06/25

**Single Point Surface Area**



**Single Point Surface Area**

Relative Pressure [P/Po]	Volume @ STP [cc/g]	1 / [ W((P/Po) - 1) ]	Slope	Surf. Area [m²/g]
9.55148e-05	7.6175	1.0034e-02	105.0472	33.1524
3.13451e-04	9.4321	2.6598e-02	84.8566	41.0406
5.14152e-04	10.2924	3.9990e-02	77.7792	44.7750
7.14481e-04	10.8965	5.2501e-02	73.4820	47.3935
9.05462e-04	11.3375	6.3959e-02	70.6370	49.3023
1.00718e-03	11.5437	6.9880e-02	69.3822	50.1939
3.03561e-03	13.7335	1.7739e-01	58.4379	59.5943
5.15160e-03	14.8408	2.7918e-01	54.1929	64.2625
7.06711e-03	15.5088	3.6720e-01	51.9586	67.0258
9.05417e-03	16.0549	4.5535e-01	50.2919	69.2471
1.01622e-02	16.3021	5.0389e-01	49.5847	70.2346
2.17774e-02	18.0606	9.8626e-01	45.2884	76.8976
2.99279e-02	18.8339	1.3107e+00	43.7937	79.5220
3.99580e-02	19.5873	1.7002e+00	42.5492	81.8480
5.05029e-02	20.2498	2.1016e+00	41.6142	83.6869
9.94973e-02	22.6062	3.9107e+00	39.3046	88.6045
1.50390e-01	24.6379	5.7485e+00	38.2237	91.1101
2.00649e-01	26.5795	7.5563e+00	37.6592	92.4757
2.50344e-01	28.5315	9.3650e+00	37.4085	93.0956
3.00301e-01	30.5782	1.1230e+01	37.3967	93.1250
3.50354e-01	32.7157	1.3190e+01	37.6464	92.5073
4.00204e-01	34.9210	1.5288e+01	38.2002	91.1662
4.51721e-01	37.4511	1.7602e+01	38.9664	89.3735
5.01927e-01	40.0338	2.0141e+01	40.1270	86.7886
5.50946e-01	42.7989	2.2937e+01	41.6317	83.6517
6.00719e-01	46.0201	2.6158e+01	43.5442	79.9777

Continued on next page



**Analysis**

Operator:  
Sample ID:

Demo  
HA

Date:2025/05/20

Filename:

**Report**

Operator: Anton Parr  
SARM2012\_st3\_2025\_05\_20\_09\_02\_44.qps

Date:2025/06/25

**Single Point Surface Area** continued

Relative Pressure [P/Po]	Volume @ STP [cc/g]	1 / [ W((P/Po) - 1) ]	Slope	Surf. Area [m²/g]
6.53098e-01	50.1135	3.0059e+01	46.0251	75.6666
7.01776e-01	54.8321	3.4338e+01	48.9303	71.1740
7.50259e-01	61.2029	3.9274e+01	52.3473	66.5281
8.00498e-01	70.6820	4.5421e+01	56.7414	61.3761
8.48961e-01	86.1849	5.2182e+01	61.4662	56.6583
9.00029e-01	123.7038	5.8231e+01	64.6993	53.8270
9.48759e-01	251.4011	5.8929e+01	62.1115	56.0696
9.91229e-01	313.0492	2.8885e+02	291.4094	11.9508
9.49756e-01	298.8432	5.0611e+01	53.2881	65.3535
9.00716e-01	188.4278	3.8523e+01	42.7692	81.4270
8.50245e-01	99.6309	4.5596e+01	53.6267	64.9409
8.01099e-01	75.6416	4.2603e+01	53.1812	65.4849
7.50567e-01	63.6402	3.7832e+01	50.4047	69.0921
6.99745e-01	56.0381	3.3275e+01	47.5535	73.2347
6.48852e-01	50.8365	2.9083e+01	44.8219	77.6978
5.96917e-01	46.6065	2.5423e+01	42.5908	81.7681
5.49934e-01	43.4092	2.2522e+01	40.9541	85.0358
4.98916e-01	40.3828	1.9728e+01	39.5412	88.0744
4.48483e-01	37.6727	1.7271e+01	38.5098	90.4333
4.00333e-01	35.2904	1.5136e+01	37.8086	92.1105
3.49801e-01	32.9615	1.3059e+01	37.3338	93.2818
2.99999e-01	30.7516	1.1151e+01	37.1698	93.6934
2.49671e-01	28.5974	9.3099e+00	37.2888	93.3944
1.99131e-01	26.5212	7.5014e+00	37.6706	92.4479
1.49065e-01	24.4964	5.7218e+00	38.3846	90.7281
1.00298e-01	22.4600	3.9714e+00	39.5957	87.9532
5.08293e-02	19.9955	2.1429e+00	42.1579	82.6076