



#### Analysis

Operator: Demo  
Sample ID: Ironoide07152024  
Sample Desc:  
Sample Weight: 0.1488 g  
Approx. Outgas Time: 9.4 hrs  
Analysis gas: Nitrogen  
Analysis Time: 9:51 hr:min  
Analysis Mode: Standard  
VoidVol. Mode: He Measure

Date: 2024/07/16

Filename: Ironoxide07162024.qps  
Comment:  
Instrument: Autosorb iQ Station 1  
Final Outgas Temp.: 300 °C  
Non-ideality: 6.58e-05 1/Torr  
Bath temp.: 77.35 K  
Cold Zone V: 2.70818 cc

#### Report

Operator: Anton Parr

Date: 2024/07/17

Extended info: Available  
CellType: 6mm w/o rod  
VoidVol Remeasure: off  
Warm Zone V: 8.41758 cc

#### Data Reduction Parameters

##### Adsorbate model

Thermal Transpiration: on  
Nitrogen  
Molec. Wt.: 28.013

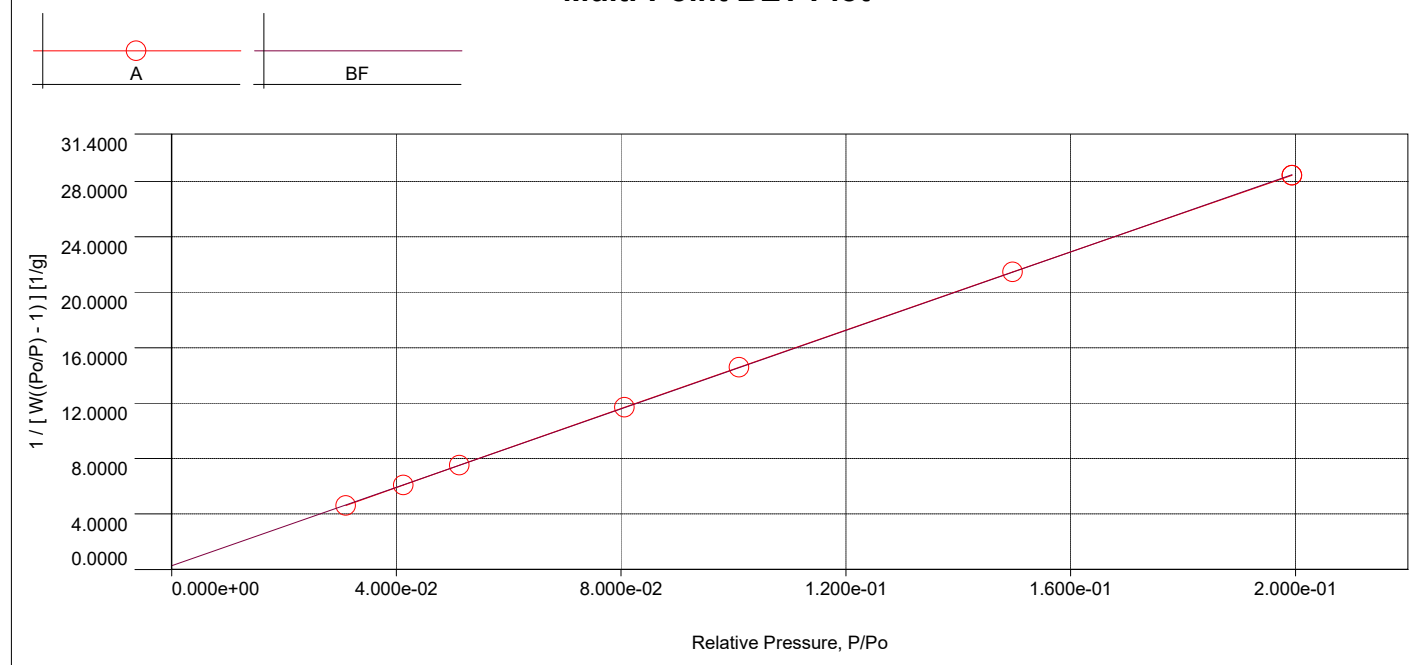
Eff. mol. diameter (D): 3.54 Å  
Temperature: 77.350K  
Cross Section: 16.200 Å²

Eff. cell stem diam. (d): 4.0000 mm  
Liquid Density: 0.806 g/cc

#### MBET summary

Slope = 141.477 1/g  
Intercept = 2.670e-01 1/g  
Correlation coefficient, r = 0.999995  
C constant = 530.849  
Surface Area = 24.569 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]
3.10312e-02	5.5490	4.6176e+00	1.01011e-01	6.1649	1.4583e+01
4.12294e-02	5.6498	6.0898e+00	1.49654e-01	6.5611	2.1462e+01
5.12093e-02	5.7397	7.5238e+00	1.99405e-01	7.0062	2.8444e+01
8.05887e-02	5.9975	1.1693e+01			



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Single Point Surface Area

**S-BET error:**  
**No S tag selected**

Single Point Surface Area

**S-BET error:**  
**No S tag selected**