

# UNIVERSITAS ISLAM INDONESIA

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LABORATORIUM TERPADU  
Quantachrome TouchWin v1.22



Report date: Mon Jan 8 2024 Operator: Yusuf  
Filename: 16731223\_1.qcuPhysIso

## Analysis Information

### Sample

ID 1673\_1 Weight 0.0863g  
Description CFA-5

### Analysis

Data ID {660185be-4bef-4b3b-948f-c64486943aa9}  
Operator Yusuf Date 2024.01.08 Duration 142.1 min  
Instrument St 2 on NOVA touch 4LX [s/n:170170510001] Firmware 1.07  
Comments description of sample  
Ambient Temp. 20.31°C Void Volume Mode NOVA mode Cell ID 42  
Cell Type 9mm with rod Thermal Delay 300 sec Po Mode Continuous

### Adsorbate

Name Nitrogen Molecular Weight 28.013 g/mol Cross Section Area 16.2 Å²/mol  
Non-ideality 6.580000e-05 1/torr Bath Temperature 77.35 K

### Degas information

Time 1.0 hours Temp 90.000000°C

## Data Reduction Parameters

Thermal Transpiration yes Eff. Cell Diameter 0 mm Eff. Molec. Diameter 0 Å

### Adsorbate Model

Name Nitrogen Molecular Weight 28.0134 g Cross Section Area 16.2 Å²/molec  
Bath Temperature 77.35 K

## BET Multi-point BET results

Isotherm Branch Adsorption  
Slope 158.976  
Intercept -2.07234  
Correlation coeff., r 0.997224  
C constant -75.7132  
Surface area 22.195 m²/g

## Table - BET Multi-point BET

Relative Pressure	Volume Adsorbed @STP cc/g	1 / [ W((P/Po) - 1) ]
0.0505704	5.85719	7.2760
0.148287	6.86521	20.2911
0.248307	7.34958	35.9613
0.350877	7.85614	55.0515