

# 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 no  
Temp. Comp no  
Thickness Method deBoer  
P-tags below 0.35 ignored  
Moving Pt. Average off

### Adsorbate Model

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

## Area-Volume Summary results

### Surface Area Results

Multipoint BET 22.1953 m²/g  
BJH adsorption 25.3153 m²/g  
BJH desorption 36.4253 m²/g

### Pore Volume Results

BJH adsorption cumulative micropore volume 0.118179 cc/g  
BJH desorption cumulative micropore volume 0.124414 cc/g  
Total Pore Volume 0.116053 cc/g

### Pore Size Results

BJH adsorption pore radius 12.8536 nm  
BJH desorption pore radius 3.67783 nm  
Average Pore Size 10.4575 nm