

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. Molec. Diameter 0 Å
Eff. Cell Diameter 0 mm
Thickness Method deBoer

t plot results

Isotherm Branch Adsorption
Slope 7.48718 cc/nm/g
Intercept 3.84783 cc/g
Correlation coefficient, r 0.999988
Micropore volume 0.00596665 cc/g
Micropore area 10.585 m²/g
External surface area 11.610 m²/g

Table - t plot

Relative Pressure	Volume Adsorbed @STP cc/g	Statistical Thickness nm
0.248307	7.34958	0.4679
0.350877	7.85614	0.5350
0.449213	8.38009	0.6055