

UNIVERSITAS ISLAM INDONESIA

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LABORATORIUM TERPADU
Quantachrome TouchWin v1.22



Report date: Mon Jan 8 2024 Operator: Yusuf
Filename: 16731223_2.qcuPhysIso

Analysis Information

Sample

ID 1673_2 Weight 0.0855g
Description CFA-CTAB-5

Analysis

Data ID {31f7ffaa-a53f-4a2c-9c5c-4615c1d14882}
Operator Yusuf Date 2024.01.08 Duration 145.9 min
Instrument St 3 on NOVA touch 4LX [s/n:170170510001] Firmware 1.07
Comments description of sample
Ambient Temp. 20.38°C Void Volume Mode NOVA mode Cell ID 43
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 35.3653 cc/nm/g
Intercept -0.735714 cc/g
Correlation coefficient, r 0.999847
Micropore volume 0 cc/g
Micropore area 0.000 m²/g
External surface area 52.361 m²/g

Table - t plot

Relative Pressure	Volume Adsorbed @STP cc/g	Statistical Thickness nm
0.247354	15.8154	0.4673
0.347357	18.0506	0.5326
0.446096	20.6179	0.6031