

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 145.9min
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 300sec Po Mode Continuous

Adsorbate

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

Degas information

Time 1.0 hours Temp 90.000000°C

Data Reduction Parameters

Thermal Transpiration yes Eff. Molec. Diameter 0Å
Eff. Cell Diameter 0mm
Thickness Method deBoer
P-tags below 0.35 included Moving Pt. Average off

Adsorbate Model

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

BJH Pore Size Distribution Desorption results

Surface Area 61.5111 m²/g
Pore Volume 0.139589 cc/g
Pore radius Dv(r) 2.67179 nm

Table - BJH Pore Size Distribution Desorption

radius nm	Pore Volume cc/g	Pore Surf. Area m²/g	dV(r) cc/nm/g	dS(r) m²/nm/g	dV(log r) cc/g	dS(log r) m²/g
2.04511	1.007591e-02	9.853674e+00	2.037168e-02	1.992236e+01	9.546154e-02	9.335600e+01
2.67179	3.138125e-02	2.580203e+01	2.807899e-02	2.101885e+01	1.715754e-01	1.284347e+02
3.69570	6.128655e-02	4.198586e+01	2.319939e-02	1.255480e+01	1.954011e-01	1.057451e+02
5.78125	1.003667e-01	5.550546e+01	1.355985e-02	4.690972e+00	1.767041e-01	6.113003e+01
13.0619	1.395889e-01	6.151105e+01	3.358280e-03	5.142097e-01	9.387284e-02	1.437353e+01