UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang Km 14.5, Sleman Yogyakarta 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 0.0863_g

Description CFA-5

<u>Analysis</u>

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

<u>Adsorbate</u>

Name Nitrogen Molecular Weight 28.013 g/mol Cross Section Area 16.2 Ų/mol

Non-ideality 6.580000e-051/tor Bath Temperature 77.35 κ

Degas information

Time 1.0 hours **Temp** 90.000000 c

Data Reduction Parameters

Thermal Transpiration yes Eff. Molec. Diameter 0A

Eff. Cell Diameter Omm
Thickness Method deBoer
P-tags below 0.35 included

P-tags below 0.35 included Moving Pt. Average off

Adsorbate Model

Name Nitrogen Molecular Weight 28.0134g Cross Section Area 16.2 Å²/molec

Bath Temperature 77.35 K

BJH Pore Size Distribution Desorption results

 Surface Area
 36.4253 m²/g

 Pore Volume
 0.124414 cc/g

 Pore radius Dv(r)
 3.67783 nm

Table - BJH Pore Size Distribution Desorption

able - Bit Fore Size Distribution Description					
Pore Volume cc/g	Pore Surf. Area m²/g	dV(r) cc/nm/g	dS(r) m²/n m/g	dV(log r) cc/g	dS(log r) m²/g
9.200061e-05	8.910962e-02	1.880522e-04	1.821429e-01	8.899103e-04	8.619461e-01
2.690296e-03	2.038556e+00	3.647495e-03	2.736638e+00	2.225426e-02	1.669689e+01
2.267488e-02	1.290616e+01	1.523272e-02	8.283540e+00	1.276187e-01	6.939896e+01
6.279091e-02 1.244140e-01	2.690283e+01 3.642532e+01	1.434334e-02 5.301368e-03	5.004458e+00 8.192098e-01	1.854994e-01 1.467286e-01	6.472163e+01 2.267367e+01
	9.200061e-05 2.690296e-03 2.267488e-02 6.279091e-02	Pore Volume cc/g Pore Surf. 4 rea m²/g 8.910962e-02 2.690296e-03 2.038556e+00 2.267488e-02 1.290616e+01 6.279091e-02 2.690283e+01	Pore Volume cc/g Pore Surf. Area cc/n m/g m²/g 9.200061e-05 8.910962e-02 1.880522e-04 2.690296e-03 2.038556e+00 3.647495e-03 2.267488e-02 1.290616e+01 1.523272e-02 6.279091e-02 2.690283e+01 1.434334e-02	Pore Volume cc/g Pore Surf. Area m²/g dV(r) cc/nm/g dS(r) m²/n m/g 9.200061e-05 8.910962e-02 1.880522e-04 1.821429e-01 2.690296e-03 2.038556e+00 3.647495e-03 2.736638e+00 2.267488e-02 1.290616e+01 1.523272e-02 8.283540e+00 6.279091e-02 2.690283e+01 1.434334e-02 5.004458e+00	Pore Volume cc/g Pore Surf. Area m²/g dV(r) cc/nm/g dS(r) m²/nm/g dV(log r) cc/g 9.200061e-05 8.910962e-02 1.880522e-04 1.821429e-01 8.899103e-04 2.690296e-03 2.038556e+00 3.647495e-03 2.736638e+00 2.225426e-02 2.267488e-02 1.290616e+01 1.523272e-02 8.283540e+00 1.276187e-01 6.279091e-02 2.690283e+01 1.434334e-02 5.004458e+00 1.854994e-01