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**	0.0855 g		
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				
P-tags below 0.35	included			**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				

BJH Pore Size Distribution Adsorption results

Surface Area	43.0491 m²/g
Pore Volume	0.130649 cc/g
Pore radius Dv(r)	2.03917 nm

Table - BJH Pore Size Distribution Adsorption

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
2.03917	6.919981e-03	6.787069e+00	1.378370e-02	1.351895e+01	6.439108e-02	6.315433e+01
2.65572	1.681057e-02	1.423558e+01	1.352896e-02	1.018854e+01	8.220481e-02	6.190773e+01
3.64434	3.301790e-02	2.313010e+01	1.300564e-02	7.137438e+00	1.080638e-01	5.930495e+01
5.59962	5.675152e-02	3.160697e+01	8.907786e-03	3.181570e+00	1.126528e-01	4.023589e+01
12.9167	1.306489e-01	4.304915e+01	6.173683e-03	9.559250e-01	1.696251e-01	2.626453e+01