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**	0.0863 g		
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				
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	25.3153 m²/g
Pore Volume	0.118179 cc/g
Pore radius Dv(r)	12.8536 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
2.04178	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
2.63850	5.307044e-04	4.022781e-01	7.458338e-04	5.653479e-01	4.503611e-03	3.413773e+00
3.64484	7.995974e-03	4.498625e+00	5.737496e-03	3.148282e+00	4.763651e-02	2.613913e+01
5.62398	2.635600e-02	1.102782e+01	6.909716e-03	2.457235e+00	8.778866e-02	3.121942e+01
12.8536	1.181787e-01	2.531531e+01	7.780208e-03	1.210589e+00	2.130631e-01	3.315232e+01