# 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** | no | | | | |
| **Temp. Comp** | no | | | | |
| **Thickness Method** | deBoer | | | | |
| **P-tags below 0.35** | ignored | | | **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 | | | | |

## Area-Volume Summary results

**Surface Area Results**

| | |
|---|---|
| **Multipoint BET** | 52.3615 m²/g |
| **BJH adsorption** | 43.0491 m²/g |
| **BJH desorption** | 61.5111 m²/g |

**Pore Volume Results**

| | |
|---|---|
| **BJH adsorption cumulative micropore volume** | 0.130649 cc/g |
| **BJH desorption cumulative micropore volume** | 0.139589 cc/g |
| **Total Pore Volume** | 0.138651 cc/g |

**Pore Size Results**

| | |
|---|---|
| **BJH adsorption pore radius** | 2.03917 nm |
| **BJH desorption pore radius** | 2.67179 nm |
| **Average Pore Size** | 5.29593 nm |