UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang Km 14.5, Sleman Yogyakarta LABORATORIUM TERPADU Quantachrome TouchWin v1.22



Report date: Mon Jan 8 2024 Yusuf Operator: 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 145.9 min **Instrument** St 3 on NOVA touch 4LX [s/n:170170510001] Firmware 1.07 description of sample Comments Ambient Temp. 20.38℃ Void Volume Mode NOVA mode Cell ID 43 Cell Type 9mm with rod Thermal Delay 300 sec Po Mode Continuous <u>Adsorbate</u> Nitrogen Molecular Weight 28.013 g/mol Cross Section Area 16.2 Å²/mol Non-ideality 6.580000e-051/tom **Bath Temperature** 77.35 ĸ Degas information Time 1.0 hours Temp 90.000000°c Data Reduction Parameters Thermal Transpiration yes Eff. Molec. Diameter 0A Eff. Cell Diameter **Adsorbate Model** Name Nitrogen Molecular Weight 28.0134g Cross Section Area 16.2Å²/molec Bath Temperature 77.35κ BET Multi-point BET results Isotherm Branch Adsorption **Slope** 66.0165 Intercept 0.492626 Correlation coeff., r 0.999772 C constant 135.009 Surface area 52.361 m²/g Table - BET Multi-point BET -Relative Pressure Volume Adsorbed 1 / [W((P/Po) - 1)] @STP cc/g 0.0482163 10.6227 3.8157 0.148221 13.6961 10.1657 0.247354 15.8154 16.6264 18.0506 0.347357 23.5916