Quantachrome NovaWin - Data Acquisition and Reduction

for NOVA instruments

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version 11.0

Analysis Report

Operator:Quicksall Lab Date:2017/04/18 Operator:Quicksall Lab Date:4/19/2017

Sample ID: TAMU A Filename: C:\QCdata\Physisorb\ARW TAMU A 4\_19\_17.qps

Sample Desc: Biochar Sample TAMU Sample AComment:

Sample weight: 0.2 g Sample Volume: 0 cc

Outgas Time: 0.0 hrs OutgasTemp: 0.0 C

Analysis gas: Nitrogen Bath Temp: 77.3 K

Press. Tolerance:0.100/0.100 (ads/des)Equil time: 60/60 sec (ads/des) Equil timeout: 240/240 sec (ads/des)

Analysis Time: 124.3 min End of run: 2017/04/18 19:41:20 Instrument: Nova Station A

Cell ID: 0 F/W version: 0.00

Adsorbate Nitrogen Temperature 77.350K

Molec. Wt.: 28.013 g Cross Section: 16.200 Å² Liquid Density: 0.808 g/cc

Relative Volume @ STP 1 / [ W((Po/P) - 1) ]

Pressure

P/Po cc/g

1.02920e-01 1.0671 8.6019e+01

1.54992e-01 1.2062 1.2167e+02

2.04903e-01 1.3029 1.5825e+02

2.53147e-01 1.3926 1.9474e+02

3.01398e-01 1.4709 2.3468e+02

2.98286e-01 1.6622 2.0462e+02

2.45606e-01 1.5662 1.6632e+02

1.95967e-01 1.4883 1.3103e+02

1.45712e-01 1.3889 9.8262e+01

9.50570e-02 1.2720 6.6074e+01

BET summary

Slope = 721.505

Intercept = 2.012e+00

Correlation coefficient, r = 0.978957

C constant= 359.648

Surface Area = 4.813 m²/g

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Analysis Report

Operator:Quicksall Lab Date:2017/04/18 Operator:Quicksall Lab Date:4/19/2017

Sample ID: TAMU B Filename: C:\QCdata\Physisorb\ARW TAMU B 4\_19\_17.qps

Sample Desc: biochar TAMU sample BComment:

Sample weight: 0.1782 g Sample Volume: 0 cc

Outgas Time: 3.0 hrs OutgasTemp: 150.0 C

Analysis gas: Nitrogen Bath Temp: 77.3 K

Press. Tolerance:0.100/0.100 (ads/des)Equil time: 60/60 sec (ads/des) Equil timeout: 240/240 sec (ads/des)

Analysis Time: 126.0 min End of run: 2017/04/18 19:43:07 Instrument: Nova Station B

Cell ID: 0 F/W version: 0.00

Adsorbate Nitrogen Temperature 77.350K

Molec. Wt.: 28.013 g Cross Section: 16.200 Å² Liquid Density: 0.808 g/cc

Relative Volume @ STP 1 / [ W((Po/P) - 1) ]

Pressure

P/Po cc/g

9.55580e-02 1.1971 7.0619e+01

1.55886e-01 1.3527 1.0924e+02

2.03551e-01 1.4457 1.4145e+02

2.53083e-01 1.5500 1.7491e+02

3.03116e-01 1.6384 2.1241e+02

3.02328e-01 1.8641 1.8600e+02

2.42272e-01 1.7620 1.4519e+02

1.96303e-01 1.6701 1.1702e+02

1.44954e-01 1.5671 8.6554e+01

9.43560e-02 1.4371 5.8006e+01

BET summary

Slope = 652.983

Intercept = 1.036e-01

Correlation coefficient, r = 0.978465

C constant= 6303.026

Surface Area = 5.332 m²/g