Machine generated alternative text:
Quantachrome NovaWin - Data Acquisition and Reduction
for NOVA instruments
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version 11.03
Analysis
Report
Operator:
Abdulkareem Abdulrahman
Date:
2008/09/03
Operator:
quantachrome
Date:
2022/03/19
Sample ID:  
Sample Lilran
Filename:  
Sample Lilran.qps
Sample Desc:
 
Comment:
 
Sample weight:
0.12 g
Sample Volume:
1 cc
Outgas Time:
3.0 hrs
OutgasTemp:
250.0 C
Analysis gas:
Nitrogen
Bath Temp:
273.0 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:
111.0 min
End of run:
2008/09/03 5:17:46
Instrument:
Nova Station A
Cell ID:
1
Quantachrome NovaWin - Data Acquisition and Reduction for NOVA instruments ©1994-2013, Quantachrome Instruments version 11.03
Report id:{372334809:20220319 080828563} Page 1 of 1
Multi-Point BET Plot
Adsorbate
NitrogenTemperature
77.350K
Molec. Wt.: 
28.013 
Cross Section: 
16.200
  Å²
Liquid Density: 
0.808  g/cc
Data Reduction Parameters
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Report id:{372334809:20220319 080828563} Page 1 of 1
A
0.0000
0.4000
0.8000
1.2000
1.6000
2.0000
2.4000
2.8000
3.2000
3.6000
4.0000
4.4000
4.7000
1 / [ W((Po/P) - 1) ]
0.000e+00
4.000e-02
8.000e-02
1.200e-01
1.600e-01
2.000e-01
2.400e-01
2.800e-01
3.200e-01
Relative Pressure, P/Po
BET
 summary
Slope =
7.817
Intercept =
2.014e+00
Correlation coefficient, r =
0.991739
C constant=
4.882
 
Surface Area =
354.220 m²/g
 
 
 
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Analysis gas:
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Bath Temp:
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Press. Tolerance:
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Equil time:
60/60 sec (ads/des)
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240/240
 sec (ads/des)
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Comment:
 
Sample weight:
0.12 g
Sample Volume:
1 cc
Outgas Time:
3.0 hrs
OutgasTemp:
250.0 C
Analysis gas:
Nitrogen
Bath Temp:
273.0 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:
111.0 min
End of run:
2008/09/03 5:17:46
Instrument:
Nova Station A
Cell ID:
1
Quantachrome NovaWin - Data Acquisition and Reduction for NOVA instruments ©1994-2013, Quantachrome Instruments version 11.03
Report id:{111127250:20220319 080856892} Page 1 of 1
DA Plot
DA Method
Incr. E: 
500.000
Incr. n: 
0.100
Interact. Const. (K): 
2.960
nm³ x kJ / mol
Adsorbate
NitrogenTemperature
77.350K
Molec. Wt.: 
28.013 
Cross Section: 
16.200
  Å²
Liquid Density: 
0.808  g/cc
Data Reduction Parameters
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2008/09/03
Operator:
quantachrome
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2022/03/19
Sample ID:  
Sample Lilran
Filename:  
Sample Lilran.qps
Sample Desc:
 
Comment:
 
Sample weight:
0.12 g
Sample Volume:
1 cc
Outgas Time:
3.0 hrs
OutgasTemp:
250.0 C
Analysis gas:
Nitrogen
Bath Temp:
273.0 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:
111.0 min
End of run:
2008/09/03 5:17:46
Instrument:
Nova Station A
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Quantachrome NovaWin - Data Acquisition and Reduction for NOVA instruments ©1994-2013, Quantachrome Instruments version 11.03
Report id:{111127250:20220319 080856892} Page 1 of 1
dV
0.0000
0.0400
0.0800
0.1200
0.1320
Pore Volume[cc/nm/g]
0.000
0.400
0.800
1.200
1.600
2.000
2.400
2.800
3.200
3.600
4.000
4.400
4.800
5.200
5.600
6.000
6.400
Pore Diameter [nm]
DA method
 summary
Best E =
0.788 kJ/mol
Best n =
1.000 
DA Micropore Volume =
0.321 cc/g
Pore Diameter (mode)=
2.820e+00 nm
 
 
 
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Filename:  
Sample Lilran.qps
Sample Desc:
 
Comment:
 
Sample weight:
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Sample Volume:
1 cc
Outgas Time:
3.0 hrs
OutgasTemp:
250.0 C
Analysis gas:
Nitrogen
Bath Temp:
273.0 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:
111.0 min
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2008/09/03 5:17:46
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Filename:  
Sample Lilran.qps
Sample Desc:
 
Comment:
 
Sample weight:
0.12 g
Sample Volume:
1 cc
Outgas Time:
3.0 hrs
OutgasTemp:
250.0 C
Analysis gas:
Nitrogen
Bath Temp:
273.0 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:
111.0 min
End of run:
2008/09/03 5:17:46
Instrument:
Nova Station A
Cell ID:
1
Quantachrome NovaWin - Data Acquisition and Reduction for NOVA instruments ©1994-2013, Quantachrome Instruments version 11.03
Report id:{1226652613:20220319 080927912} Page 1 of 1
BJH method Adsorption  dV(d)
t-Method
Calc. method: 
de Boer
BJH/DH method
Moving pt. avg.: 
off
Adsorbate
NitrogenTemperature
77.350K
Molec. Wt.: 
28.013 
Cross Section: 
16.200
  Å²
Liquid Density: 
0.808  g/cc
Data Reduction Parameters
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2008/09/03
Operator:
quantachrome
Date:
2022/03/19
Sample ID:  
Sample Lilran
Filename:  
Sample Lilran.qps
Sample Desc:
 
Comment:
 
Sample weight:
0.12 g
Sample Volume:
1 cc
Outgas Time:
3.0 hrs
OutgasTemp:
250.0 C
Analysis gas:
Nitrogen
Bath Temp:
273.0 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:
111.0 min
End of run:
2008/09/03 5:17:46
Instrument:
Nova Station A
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Report id:{1226652613:20220319 080927912} Page 1 of 1
V
dV(d)
4.02e-02
7.15e-02
1.07e-01
1.43e-01
1.79e-01
1.90e-01
dV(d) (cc/nm/g)
4.50e-02
8.00e-02
1.20e-01
1.60e-01
2.00e-01
2.13e-01
Cumulative Pore Volume (cc/g)
1.474
2.000
2.436
Pore Diameter (nm)
BJH adsorption
 summary
 
Surface Area =
441.368 m²/g
Pore Volume =
0.213 cc/g
Pore Diameter Dv(d) =
2.136 nm
 
 
 
 
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Sample Volume:
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Outgas Time:
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OutgasTemp:
250.0 C
Analysis gas:
Nitrogen
Bath Temp:
273.0 K
Press. Tolerance:
0.100/0.100 (ads/des)
Equil time:
60/60 sec (ads/des)
Equil timeout:
240/240
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Report id:{1226652613:20220319 080927912} Page 1 of 1


FTIR



BET

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