

MICP Data Header Record

10.4* POROSITY

AUTOPORE II 9220 V1.05

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LP 14:02:32 10/26/87
 HP 17:25:52 10/26/87
 REP 10:45:21 01/06/88

PENETROMETER NUMBER: 635	ADVANCING CONTACT ANGLE: 130.0 deg
PENETROMETER CONSTANT: 27.82 $\mu\text{L}/\text{pF}$	RECEDING CONTACT ANGLE: 130.0 deg
PENETROMETER WEIGHT: 77.2511 g	MERCURY SURFACE TENSION: 485.0 dyn/cm
STEM VOLUME: 1.8360 mL	MERCURY DENSITY: 13.5335 g/mL
MAXIMUM HEAD PRESSURE: 4.4500 psia	SAMPLE WEIGHT: 26.2096 g
PENETROMETER VOLUME: 16.5382 mL	SAMPLE+PEN+Hg WEIGHT: 181.8200 g

LOW PRESSURE:

EVACUATION PRESSURE:	50 μmHg
EVACUATION TIME:	5 min
MERCURY FILLING PRESSURE:	1.5102 psia
EQUILIBRATION TIME:	10 sec

HIGH PRESSURE:

EQUILIBRATION TIME:	10 sec
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INTRUSION DATA SUMMARY

TOTAL INTRUSION VOLUME =	0.0425 mL/g
TOTAL PORE AREA =	1.561 $\mu\text{m}^2/\text{g}$
MEDIAN PORE DIAMETER (VOLUME) =	0.2786 μm
MEDIAN PORE DIAMETER (AREA) =	0.0347 μm
AVERAGE PORE DIAMETER (4V/A) =	0.1088 μm
BULK DENSITY =	2.4385 g/mL
APPARENT (SKELETAL) DENSITY =	2.7203 g/mL
STEM VOLUME USED =	61 *

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PRESSURE psia	PORE DIAMETER µm	CUMULATIVE VOLUME mL/g	* OF TOTAL INTRUSION VOLUME
1.51	119.7625	0.0000	0.0000
1.69	107.3181	0.0000	0.0753
1.85	97.7228	0.0001	0.1373
2.04	88.5733	0.0001	0.2746
2.25	80.4694	0.0001	0.2746
2.47	73.2921	0.0002	0.3551
2.61	69.3206	0.0002	0.3956
2.74	65.9500	0.0002	0.3956
2.88	62.8218	0.0002	0.4271
3.01	60.1371	0.0002	0.4881
3.17	57.0876	0.0002	0.4881
3.34	54.1755	0.0002	0.4881
3.48	51.9745	0.0002	0.4881
3.67	49.3325	0.0002	0.4881
3.86	46.8484	0.0002	0.5492
4.06	44.5319	0.0002	0.5644
4.25	42.5139	0.0003	0.5949
4.47	40.4516	0.0003	0.5949
4.68	38.6862	0.0003	0.6102
4.92	36.7298	0.0003	0.6102
5.17	34.9943	0.0003	0.6102
5.44	33.2183	0.0003	0.6254
5.72	31.6227	0.0003	0.6559
6.00	30.1572	0.0003	0.6559
6.30	28.7112	0.0003	0.7170
6.63	27.2847	0.0003	0.7322
6.96	25.9992	0.0003	0.7780
7.30	24.7694	0.0003	0.7780
7.66	23.6208	0.0003	0.7780
8.06	22.4390	0.0003	0.8237
8.47	21.3497	0.0004	0.8695
8.89	20.3354	0.0004	0.8695
9.34	19.3564	0.0004	0.8695
9.82	18.4190	0.0004	0.8695
10.29	17.5819	0.0004	0.8695
10.81	16.7251	0.0004	0.8695
11.36	15.9187	0.0004	0.9153
11.95	15.1374	0.0004	0.9610
12.55	14.4071	0.0004	0.9915
13.18	13.7222	0.0004	1.0066
13.84	13.0660	0.0004	1.0220
14.55	12.4312	0.0004	1.0526
15.29	11.8278	0.0005	1.0831
16.07	11.2577	0.0005	1.0831

