Table S1. NaX Molecular Sieve Standard PDF Card (PDF # 38-0237)

2-Theta (degree)	d(A)	I(f)	(h k l)
6.103	14.470	100	(1 1 1)
9.986	8.850	18	(2 2 0)
11.727	7.540	12	(3 1 1)
15.451	5.730	18	(3 3 1)
18.43	4.810	5	(5 1 1)
20.073	4.420	9	(4 4 0)
20.984	4.230	1	(5 3 1)
22.513	3.946	4	(6 2 0)
23.341	3.808	21	(5 3 3)
23.611	3.765	3	(6 2 2)
24.647	3.609	1	(4 4 4)
25.427	3.500	1	(7 1 1)
26.684	3.338	18	(6 4 2)
27.394	3.253	1	(7 3 1)
29.247	3.051	4	(7 3 3)
30.335	2.944	9	(6 6 0)
30.971	2.885	19	(7 5 1)
32.006	2.794	8	(8 4 0)
32.618	2.743	2	(9 1 1)
33.626	2.663	8	(6 6 4)
34.195	2.620	3	(9 3 1)
35.164	2.550	1	(8 4 4)
37.376	2.404	5	(10 2 2)
39.966	2.254	1	(11 1 1)
40.816	2.209	3	(8 8 0)
41.344	2.182	3	(9 7 1)
42.173	2.141	2	(10 6 0)
42.611	2.120	2	(9 7 3)
43.406	2.083	1	(12 0 0)
46.483	1.952	1	(10 8 0)
47.097	1.928	1	(10 8 2)
49.439	1.842	1	(12 6 2)
51.007	1.789	1	(13 5 1)
51.688	1.767	2	(14 2 0)
53.177	1.721	3	(11 9 3)
57.439	1.603	3	(11 11 1)

Table S2. LTA Molecular Sieve Standard PDF Card (PDF # 11-0589)

2-Theta (degree)	d(A)	I(f)	(h k l)
7.240	12.200	100	(1 0 0)
10.206	8.660	40	(1 1 0)
12.492	7.080	30	(1 1 1)
14.461	6.120	12	(2 0 0)
16.161	5.480	20	(2 1 0)
17.724	5.000	4	(2 1 1)
21.765	4.080	35	(3 0 0)
22.931	3.875	2	(3 1 0)
24.058	3.696	35	(3 1 1)
25.143	3.539	4	(2 2 2)
26.204	3.398	18	(3 2 0)
27.198	3.276	40	(3 2 1)
30.043	2.972	30	(4 1 0)
30.938	2.888	10	(3 3 0)
32.642	2.741	8	(4 2 0)
33.458	2.676	4	(4 2 1)
34.276	2.614	25	(3 3 2)
35.861	2.502	8	(4 2 2)
36.634	2.451	8	(4 3 0)
38.116	2.359	4	(5 1 1)
40.264	2.238	4	(5 2 1)
41.663	2.166	8	(4 4 0)
42.173	2.141	8	(4 4 1)
42.972	2.103	6	(5 3 0)
43.604	2.074	2	(5 3 1)
44.323	2.042	4	(6 0 0)
47.462	1.914	4	(5 4 0)
48.076	1.891	4	(5 4 1)
52.780	1.733	12	(5 5 0)
54.475	1.683	4	(7 2 0)
55.042	1.667	2	(7 2 1)
56.667	1.623	2	(7 2 2)
57.244	1.608	6	(7 3 0)
58.804	1.569	4	(6 5 0)

Table S3. Sodalite Standard PDF Card (PDF # 37-0196)

2-Theta (degree)	d(A)	I(f)	(h k l)
14.024	6.310	53	(1 1 0)
19.891	4.460	4	(2 0 0)
24.434	3.640	100	(2 1 1)
31.703	2.820	21	(3 1 0)
34.742	2.580	36	(2 2 2)
37.767	2.380	15	(3 2 1)
42.972	2.103	36	(4 1 1)
45.425	1.995	2	(4 2 0)
47.780	1.902	3	(3 3 2)
50.048	1.821	5	(4 2 2)
52.228	1.750	9	(4 3 1)
56.439	1.629	1	(5 2 1)
58.477	1.577	10	(4 4 0)
60.457	1.530	9	(4 3 3)
62.398	1.487	7	(6 0 0)
64.326	1.447	7	(5 3 2)
66.174	1.411	1	(6 2 0)
68.027	1.377	4	(5 4 1)
69.877	1.345	4	(6 2 2)
71.714	1.315	2	(6 3 1)
73.460	1.288	3	(4 4 4)
75.232	1.262	1	(5 5 0)
77.027	1.237	1	(6 4 0)
78.765	1.214	4	(5 5 2)
80.513	1.192	1	(6 4 2)
82.264	1.171	2	(7 3 0)
85.665	1.133	2	(6 5 1)
87.392	1.115	1	(8 0 0)
89.100	1.098	2	(5 5 4)
90.780	1.082	1	(8 2 0)
94.260	1.051	1	(8 2 2)
95.940	1.037	1	(7 4 3)
97.695	1.023	2	(6 6 2)
99.397	1.010	1	(7 5 2)
101.120	0.997	2	(8 4 0)
102.875	0.985	1	(9 1 0)
106.395	0.962	1	(7 6 1)
108.186	0.951	1	(6 6 4)
110.007	0.940	1	(8 5 1)
113.685	0.920	1	(7 6 3)
115.558	0.911	1	(8 4 4)
117.480	0.901	1	(7 7 0)

Table S3. Sodalite Standard PDF Card (PDF # 37-0196) (Continued)

2-Theta (degree)	d(A)	I(f)	(h k l)
121.395	0.883	1	(10 1 1)
125.510	0.866	1	(9 4 3)
127.622	0.858	1	(6 6 6)
129.801	0.851	1	(7 6 5)
134.422	0.836	1	(7 7 4)
136.855	0.828	1	(8 6 4)