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Table A. Distance least-squares optimized atomic coordinates for Hypothetical Polymorph C [space group Bmmm (No. 65) a= 13.39 Å, b= 12.73 Å, c= 21.33 Å, R=0.001].

		x	У	Z
1	Si1	0.11634	0.37703	0.07137
2	Si2	0.19939	0.19333	0.14961
3	Si3	0.11554	0.12123	0.27628
4	Si4	0.11093	0.00000	0.07583
5	01	0.17096	0.10406	0.09833
6	02	0.10165	0.00000	0.00000
7	O3	0.00000	0.00000	0.10653
8	04	0.14731	0.50000	0.07594
9	O5	0.00000	0.36332	0.09104
10	O6	0.18591	0.30877	0.11849
11	07	0.13217	0.33607	0.00000
12	08	0.12621	0.18250	0.20990
13	09	0.31445	0.17789	0.17163
14	O10	0.00000	0.12461	0.29914
15	011	0.15040	0.00000	0.26772

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Supplementary Material

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Table B. Distance least-squares optimized atomic coordinates for Hypothetical Polymorph D [space group Bmmm (No. 65) a= 12.69 Å, b= 10.43 Å, c= 21.19 Å, R=0.001].

		x	у	Z
1	Si1	0.12809	0.50000	0.07431
2	Si2	0.18757	0.24474	0.15339
3	Si3	0.11272	0.14805	0.27349
4	Si4	0.12710	0.00000	0.07220
5	05	0.17572	0.12649	0.10425
6	06	0.16799	0.00000	0.00000
7	07	0.00000	0.50000	0.07913
8	08	0.17232	0.62553	0.11231
9	09	0.16121	0.50000	0.00000
10	010	0.09792	0.22423	0.20699
11	011	0.30333	0.23057	0.18501
12	012	0.00000	0.14771	0.31026
13	013	0.14962	0.00000	0.26315
14	014	0.00000	0.00000	0.07490

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Table C. Distance least-squares optimized atomic coordinates for Hypothetical Polymorph E [space group I mmm (No. 71) a= 13.06 Å, b= 10.49 Å, c= 21.19 Å, R=0.001].

		x	У	Z
1	Si1	0.12252	0.50000	0.06766
2	Si2	0.19040	0.25128	0.14887
3	Si3	0.11795	0.14919	0.27989
4	Si4	0.12072	0.00000	0.07653
5	O 5	0.17880	0.12574	0.10434
6	06	0.13075	0.00000	0.00000
7	07	0.00000	0.50000	0.05401
8	08	0.14887	0.62609	0.10943
9	09	0.18150	0.50000	0.00000
10	O10	0.12505	0.22515	0.21296
11	011	0.30850	0.27957	0.16900
12	012	0.00000	0.15564	0.30472
13	013	0.15008	0.00000	0.27172
14	014	0.00000	0.00000	0.09555

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Distance least-squares optimized atomic coordinates for Table D. Hypothetical Polymorph F [space group B mmm (No. 71) a= 13.37 Å, b= 7.80 Å, *c*= 21.17 Å, R=0.001].

		X	У	Z
1	Si1	0.12106	0.00000	0.07365
2	Si2	0.22239	0.31184	0.15077
3	Si3	0.12011	0.20112	0.27558
4	04	0.00000	0.00000	0.07828
5	O5	0.16487	0.17006	0.10807
6	06	0.15464	0.00000	0.00000
7	07	0.17411	0.31480	0.22112
8	08	0.21078	0.50000	0.11874
9	09	0.34010	0.26236	0.15556
10	O10	0.00000	0.22795	0.27159
11	011	0.14678	0.00000	0.26522

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Supplementary Material

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Table E. Distance least-squares optimized atomic coordinates for Hypothetical Polymorph G [space group I mma (No. 74) a= 13.05 Å, b= 10.50 Å, c= 21.26 Å, R=0.001].

		X	У	Z
1	Si1	0.12387	0.25000	0.08561
2	Si2	0.12385	0.25000	0.93727
3	Si3	0.19291	0.98433	0.14948
4	Si4	0.11706	0.89533	0.27920
5	O5	0.15375	0.25000	0.01144
6	O6	0.17063	0.37617	0.11943
7	07	0.00000	0.25000	0.09288
8	08	0.00000	0.25000	0.93004
9	O9	0.17036	0.37603	0.90329
10	O10	0.31154	0.97514	0.17222
11	011	0.11947	0.96161	0.21017
12	012	0.00000	0.89362	0.30513
13	013	0.15892	0.75000	0.27397

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Table F. Distance least-squares optimized atomic coordinates for Hypothetical Polymorph H [space group B mmb (No. 63) a= 12.87 Å, b= 9.87 Å, c= 17.56 Å, R=0.001].

		x	У	Z
1	Si1	0.11310	0.25000	0.12923
2	Si2	0.11372	0.25000	0.94555
3	Si3	0.22538	0.96493	0.15239
4	Si4	0.11957	0.88947	0.30336
5	05	0.09944	0.25000	0.03744
6	06	0.17554	0.38423	0.15588
7	07	0.00000	0.25000	0.16983
8	08	0.00000	0.25000	0.90557
9	09	0.17813	0.38406	0.92014
10	010	0.35032	0.98049	0.14439
11	011	0.19648	0.88425	0.23004
12	012	0.00000	0.90348	0.27503
13	013	0.13253	0.75000	0.35171

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Table G. Distance least-squares optimized atomic coordinates for Hypothetical Structure built based on the projections along [1 0 0] of polymorph A of zeolite beta and the projection along [1 0 0] of polymorph C of zeolite beta. [space group Pmma (No. 51) a=23.69 Å, b=13.90 Å, c=12.71Å, R=0.001].

		X	У	Z
1	Si1	0.18566	0.39071	0.95613
2	Si2	0.18559	0.39081	0.70294
3	Si3	0.13351	0.20220	0.02725
4	Si4	0.13386	0.20139	0.63861
5	Si5	0.25000	0.11598	0.72209
6	Si6	0.25000	0.11598	0.95211
7	Si7	0.06628	0.11140	0.83181
8	Si8	0.06232	0.11475	0.45657
9	Si9	0.06622	0.10985	0.21090
10	010	0.14221	0.31733	0.01361
11	011	0.17802	0.38283	0.82954
12	012	0.17243	0.50000	0.99368
13	013	0.25000	0.36274	-0.01235
14	014	0.14233	0.31708	0.64551
15	015	0.25000	0.36340	0.67133
16	016	0.17203	0.50000	0.66545
17	017	0.09115	0.16297	0.93657
18	018	0.19407	0.14850	0.01667
19	019	0.10670	0.18006	0.14224
20	020	0.08937	0.16704	0.72814
21	021	0.19407	0.14848	0.65753
22	022	0.10972	0.17304	0.52319
23	023	0.25000	0.00000	0.73629
24	024	0.25000	0.16678	0.83710
25	O25	0.25000	0.00000	0.93792
26	O26	0.08669	0.00000	0.82861
27	027	-0.00218	0.11568	0.83397
28	028	0.07253	0.00000	0.46995
29	029	0.06707	0.14358	0.33314
30	O30	0.00000	0.14253	0.50000
31	031	0.08894	0.00000	0.20218