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SUPPORTING INFORMATION

Geometric parameters, numbering of atoms in the unit cell and connectivity of the T-O-Si linkages for the nine crystallographic T sites in polymorph-A of Zeolite-β (distances in Å, angles in degrees)[a].

T site	Neighbor O	T-O	Next Neighbor Si	∠TOSi
1	10	1.616	2	163.2
1	11	1.617	3	148.3
1	12	1.616	7	156.4
1	13	1.617	8	153.3
2	10	1.616	1	154.5
2	20	1.617	4	148.2
2	21	1.615	8	157.8
2	22	1.615	9	154.7
3	11	1.614	1	148.3
3	30	1.616	4	162.3
3	31	1.615	5	137.5
3	32	1.616	8	143.9
4	20	1.616	2	148.2
4	30	1.616	3	162.3
4	40	1.615	6	137.4
4	41	1.617	9	144.9
5	31	1.617	3	137.5
5	50	1.617	5	154.8
5	51	1.616	6	165.7
5	52	1.614	7	149.2
6	40	1.615	4	137.4
6	51	1.616	5	165.7
6	60	1.617	6	154.9
6	61	1.615	8	150.7
7	12	1.615	1	156.4
7	12	1.615	1	156.4
7	52	1.617	5	149.2
7	52	1.617	5	149.2
8	13	1.615	1	153.3
8	21	1.617	2	157.8
8	32	1.616	3	143.9
8	61	1.617	6	150.7
9	22	1.616	2	154.5
9	22	1.616	2	154.5
9	41	1.617	4	144.9
9	41	1.617	4	144.9

(a) calculated from the atomic coordinates published in Newsam, J.M.; Treacy, M.M.J.; Koetsier, W.T.; De Gruyter, C.B. *Proc. R. Soc. Lond. A* **1988**, 420, 375.