

TABLE 6. Selected distortion parameters (Schingaro *et al.*, 2011) of the studied tokkoite and tinaksite compared with those calculated from literature data.

	Tokkoite				Tinaksite			
	This study		*R. <i>et al.</i> (1989)		This study		*R. <i>et al.</i> (1991)	
	tok_1	tok_2	tok_3		tin_1	tin_2		
TAV _{Si1} (° ²)	24.833	24.804	26.424	32.524	22.165	22.653	22.571	20.281
TAV _{Si2} (° ²)	20.013	21.761	24.047	15.467	25.284	25.306	25.546	24.233
TAV _{Si3} (° ²)	9.655	9.158	9.914	9.724	9.398	8.257	7.520	9.158
TAV _{Si4} (° ²)	8.264	8.821	10.850	8.806	14.196	14.181	6.482	14.739
TAV _{Si5} (° ²)	14.035	15.654	15.568	16.044	12.682	12.452	11.475	10.994
TAV _{Si6} (° ²)	7.049	7.588	7.972	7.139	8.744	8.138	8.295	7.305
TAV _{Si7} (° ²)	5.755	7.391	7.731	2.017	12.357	11.614	11.523	9.910
TQE _{Si1}	1.006	1.006	1.006	1.008	1.005	1.005	1.005	1.005
TQE _{Si2}	1.005	1.006	1.006	1.005	1.006	1.006	1.006	1.006
TQE _{Si3}	1.004	1.004	1.004	1.004	1.003	1.003	1.003	1.003
TQE _{Si4}	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004
TQE _{Si5}	1.005	1.006	1.006	1.006	1.005	1.006	1.005	1.005
TQE _{Si6}	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003
TQE _{Si7}	1.002	1.002	1.002	1.002	1.003	1.003	1.003	1.003
Volume _{Si1} (Å ³)	2.153	2.147	2.156	2.140	2.164	2.169	2.171	2.148
Volume _{Si2} (Å ³)	2.151	2.149	2.140	2.156	2.169	2.178	2.175	2.164
Volume _{Si3} (Å ³)	2.174	2.183	2.169	2.157	2.174	2.182	2.177	2.159
Volume _{Si4} (Å ³)	2.193	2.198	2.186	2.182	2.171	2.177	2.182	2.174
Volume _{Si5} (Å ³)	2.195	2.195	2.199	2.185	2.174	2.177	2.173	2.162
Volume _{Si6} (Å ³)	2.191	2.183	2.189	2.187	2.185	2.187	2.181	2.158
Volume _{Si7} (Å ³)	2.195	2.199	2.200	2.198	2.186	2.187	2.180	2.161
OAV _{M1} (° ²)	52.221*	52.440*	52.131*	47.826	25.737*	22.381*	20.831	22.353
OAV _{M2} (° ²)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	257.459
OAV _{M3} (° ²)	56.877	56.440	56.357	54.925	62.325	65.044	63.394	61.403
OAV _{M4} (° ²)	61.667	62.601	59.833	61.463	52.312	50.558	50.993	53.167
OQE _{M1}	1.028*	1.029*	1.032*	1.032	0.996*	0.987*	0.986	0.986
OQE _{M2}	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	1.108
OQE _{M3}	1.017	1.017	1.017	1.016	0.982	1.019	0.981	0.982
OQE _{M4}	1.019	1.019	1.018	1.027	1.016	1.016	1.016	1.016
Volume _{M1} (Å ³)	13.741	13.608	13.438	14.067	10.880	10.623	10.643	10.600
Volume _{M2} (Å ³)	21.972	21.934	21.750	21.938	22.540	22.591	22.583	16.812
Volume _{M3} (Å ³)	17.257	17.237	17.225	17.236	18.386	18.442	18.459	18.312
Volume _{M4} (Å ³)	17.253	17.221	17.226	17.459	16.372	16.196	16.339	16.399

* Weighted sum, where the refined occupancies have been used as scale factors.

*R. *et al.* (1989) = Rozhdestvenskaya *et al.* (1989); *R. *et al.* (1991) = Rozhdestvenskaya *et al.* (1991).