

**TABLE OM1.** Weighted bond valences (valence units) for celleriite from the Rosina pegmatite, San Piero in Campo, Elba Island, Italy (holotype) and from the Pikárec pegmatite, western Moravia, Czech Republic (co-type)

<b>Holotype</b>						
Site	X	Y	Z	T	B	SUM
O(1)		0.40 <sup>×3</sup> →				1.20
O(2)	0.06 <sup>×3</sup> ↓	0.47 <sup>×2</sup> ↓→			1.04	2.03
O(3)		0.31	0.42 <sup>×2</sup> →			1.16
O(4)	0.03 <sup>×3</sup> ↓			1.01 <sup>×2</sup> →		2.04
O(5)	0.03 <sup>×3</sup> ↓			0.97 <sup>×2</sup> →		1.97
O(6)		0.39 <sup>×2</sup> ↓	0.55	1.04		1.99
O(7)			0.53	1.04		2.01
			0.44			
O(8)			0.48		0.98 <sup>×2</sup> ↓	2.00
			0.53			
SUM	0.36	2.44	2.96	4.06	2.99	
MAV <sup>a</sup>	0.43	2.40	2.95	4.00	3.00	

  

<b>co-type</b>						
Site	X	Y	Z	T	B	SUM
O(1)		0.42 <sup>×3</sup> →				1.25
O(2)	0.07 <sup>×3</sup> ↓	0.47 <sup>×2</sup> ↓→			1.05	2.05
O(3)		0.31	0.42 <sup>×2</sup> →			1.15
O(4)	0.03 <sup>×3</sup> ↓			0.99 <sup>×2</sup> →		2.00
O(5)	0.04 <sup>×3</sup> ↓			0.95 <sup>×2</sup> →		1.95
O(6)		0.40 <sup>×2</sup> ↓	0.56	1.02		1.98
O(7)			0.54	1.00		1.99
			0.44			
O(8)			0.59		0.97 <sup>×2</sup> ↓	1.99
			0.53			
SUM	0.42	2.47	2.98	3.96	2.99	
MAV <sup>a</sup>	0.49	2.44	2.99	3.96	3.00	

*Note:* Weighted bond valence according to Bosi (2014). Bond-valences obtained from the bond-valence parameters of Gagné and Hawthorne (2015) for cations bonded to O<sup>2-</sup> and from Brese and O'Keeffe (1991) for cations bonded to F<sup>-</sup>.

<sup>a</sup> Expected mean atomic valence (or formal charge) from the empirical crystal-chemical formula.