

P (MPa)	T (C)	xH2O (excess fluid phase)	H2O_sat_wt%	CO2_sat_wt%
200	1200	0.75	3.97	0.04
200	1200	0.5	2.89	0.07
200	1200	0.25	1.81	0.09
150	1200	0.75	3.34	0.027
150	1200	0.5	2.44	0.05
150	1200	0.25	1.54	0.06
100	1200	0.75	2.62	0.0163
100	1200	0.5	1.95	0.03
100	1200	0.25	1.24	0.04
50	1200	0.75	1.73	0.0072
50	1200	0.5	1.33	0.014
50	1200	0.25	0.87	0.0195
35	1200	0.75	1.4234	0.005
35	1200	0.5	1.1051	0.0097
35	1200	0.25	0.7344	0.0138
25	1200	0.75	1.167	0.0034
25	1200	0.5	0.91	0.0066
25	1200	0.25	0.61	0.0094
20	1200	0.75	1.0354	0.0027
20	1200	0.5	0.8156	0.0053
20	1200	0.25	0.5511	0.0077
15	1200	0.75	0.8816	0.002
15	1200	0.5	0.6985	0.0039
15	1200	0.25	0.4752	0.0057
10	1200	0.75	0.7051	0.0013
10	1200	0.5	0.5622	0.0026
10	1200	0.25	0.3856	0.0038
5	1200	0.75	0.4848	0.0006
5	1200	0.5	0.3896	0.0013
5	1200	0.25	0.2699	0.0019
2	1200	0.75	0.2988	0.0002
2	1200	0.5	0.2416	0.0005
2	1200	0.25	0.1688	0.0007
1	1200	0.75	0.2085	0.0001
1	1200	0.5	0.1691	0.0002
1	1200	0.25	0.1186	0.0004
0.5	1200	0.75	0.146	0.0001
0.5	1200	0.5	0.1187	0.0001
0.5	1200	0.25	0.0834	0.0002
0.1	1200	0.75	0.0645	0
0.1	1200	0.5	0.0525	0
0.1	1200	0.25	0.037	0

Table SM8.1. Major and trace elements of bulk pumice of the 2019 paroxysms at Stromboli (Métrich et al. 2021)

Sample	ST07-19	ST08-19	AVERAGE
SiO <sub>2</sub> (wt%)	49.25	49.60	49.43
TiO <sub>2</sub>	0.89	0.89	0.89
Al <sub>2</sub> O <sub>3</sub>	17.23	17.09	17.16
Fe <sub>2</sub> O <sub>3</sub>	8.79	8.91	8.85
MnO	0.16	0.16	0.16
MgO	6.28	6.39	6.34
CaO	11.77	11.54	11.65
Na <sub>2</sub> O	2.48	2.51	2.50
K <sub>2</sub> O	1.88	1.97	1.93
P <sub>2</sub> O <sub>5</sub>	0.51	0.52	0.52
L.O.I.	-0.150	-0.110	

Calculated on the base of the average composition using MagmaSat: Ghiorso, M.S., Gualda, G.A.R., 2015. Contrib. to Mineral. Petrol. 169, 53. <https://doi.org/10.1007/s00410-015-1141-8>