

Table 2

Averages of reported endmember concentrations from the literature and this work.

Location	Avg. E.M. pH ^a (25 °C)	Avg. E.M. H ₂ (mmol/kg) ^b	Avg. E.M. DIC (μmol/kg) ^c	Equil. Temp. Horibe modeling (°C) ^d	Avg. E.M. formate (μmol/L) ^e	Avg. E.M. acetate (μmol/L) ^e
LC-H	9.5 (Mg = 28.9)	1.3 [0.8, <i>n</i> = 6]	1.3 [1.0, <i>n</i> = 2]	55	104 [10, <i>n</i> = 1]	34 [3, <i>n</i> = 1]
LC-IF/2	10.9	3.7 [0.3, <i>n</i> = 4]	0.55 [0.6, <i>n</i> = 2]	79	124 [12, <i>n</i> = 1]	10 [1, <i>n</i> = 1]
LC-8	9.7 (Mg = 29.1)	4.2 [0.1, <i>n</i> = 2]	0.8 [<i>n</i> = 1]	75	36 [4, <i>n</i> = 1]	21 [2, <i>n</i> = 1]
LC-B	10.7	9.1 [0.1, <i>n</i> = 3]	0.1 [<i>n</i> = 1]	106	146 [7, <i>n</i> = 3]	8 [0.4, <i>n</i> = 3]
LC-C	10.0 (Mg = 12.9)	11.2 [4.6, <i>n</i> = 2]	0.1 [<i>n</i> = 1]	101	115 [8, <i>n</i> = 2]	8 [0.6, <i>n</i> = 2]
LC-3	10.8	12.3 [0.8, <i>n</i> = 3]	18 [11, <i>n</i> = 2]	105	158 [16, <i>n</i> = 1]	4 [0.4, <i>n</i> = 1]

^a Endmember pH values reported for samples with <10% seawater entrainment. For samples with >10% seawater entrainment, the pH value of the best sample is reported, with the corresponding Mg concentration (mmol/kg) in parenthesis.

^b From Proskurowski et al. (2006, 2008); averages and standard deviations are calculated from reported endmember concentrations of multiple samples.

^c From Proskurowski et al. (2008); averages and standard deviations are calculated from reported endmember concentrations of multiple samples.

^d From Proskurowski et al. (2006). Temperatures listed here the averages of H₂O–H₂ and CH₄–H₂ geothermometry calculations using the model of Horibe and Craig (1995).

^e Averages of calculated endmembers are given with the exception of LC-3, where endmember of the best sample is reported, as discussed in the Section 3. Propagated errors are reported.