

A Contribution to the Estimation of Binary Halide and Pseudo-Halide Equilibrium Constants using a Linear Extrapolation Methodology

*Astréa F. de S. Silva,^{*a} Manuel M. Ortega,^{#b} Cristo B. Melios,^c Leonardo Pezza,^c
Mercedes de Moraes,^c Mário Alberto Tenan^d and André F. Oliveira^a*

^aNúcleo de Ciências Ambientais, Universidade de Mogi das Cruzes, Av. Cândido Xavier de Almeida Souza, 200, Centro Cívico, 08780-911 Mogi das Cruzes-SP, Brazil

^bDepartamento de Química, UFMA, 65085-580 São Luís-MA, Brazil

^cInstituto de Química, UNESP, 1480-970 Araraquara-SP, Brazil

^dInstituto de Física Gleb Wataghin, Universidade Estadual de Campinas-UNICAMP, 13083-970 Campinas-SP, Brazil

Table S1. Calibration Parameters for the NaF-NaClO₄ System at (25.0 ± 0.1) °C in the linear pF interval (3.05-1.28)

I/(mol L ⁻¹)	(E _i ^o ± sd)/(mV)	(S ± sd)/(mV/dec)	r	SSR
0.1	-312.6 ± 0.4	59.8 ± 0.2	0.99981	10.069
0.3	-310.0 ± 0.7	57.8 ± 0.4	0.99989	0.368
0.5	-306.8 ± 0.2	61.1 ± 0.2	0.99994	0.838
1.0	-302.9 ± 0.5	58.0 ± 0.2	0.99991	0.522
1.5	-299.3 ± 0.4	61.4 ± 0.2	0.99980	11.729
2.0	-296.5 ± 0.2	59.8 ± 0.1	0.99993	3.915
2.5	-295.1 ± 0.1	60.3 ± 0.3	0.99999	0.282
3.0	-294.9 ± 0.2	59.8 ± 0.1	0.99996	0.258

sd = standard deviation; r = correlation coefficient; SSR = sum of squared residues

*e-mail: address: astrea@umc.br

In memoriam