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SENSOR SERIAL NUMBER: 0809
CALIBRATION DATE: 14-Jan-25

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 2.418967e-005
a1 = 2.749372e-004
a2 = -2.182735e-006
a3 = 1.550244e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	642168.3	-1.5000	0.0000
1.0000	574031.9	1.0000	-0.0000
4.5000	492009.8	4.4999	-0.0001
8.0000	423072.6	8.0000	-0.0000
11.5000	364938.2	11.5000	0.0000
15.0000	315754.8	15.0001	0.0001
18.5000	274010.9	18.5000	0.0000
22.0000	238471.7	22.0000	-0.0000
25.5000	208124.1	25.4999	-0.0001
29.0001	182131.1	29.0001	-0.0000
32.5000	159808.2	32.5000	0.0000

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/\{a0 + a1[\ln(n)] + a2[\ln^2(n)] + a3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

