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SENSOR SERIAL NUMBER: 1420
CALIBRATION DATE: 26-Apr-24

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 2.049073e-005
a1 = 2.728523e-004
a2 = -2.183414e-006
a3 = 1.503394e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	742450.7	-1.4999	0.0001
1.0000	662799.5	1.0000	-0.0000
4.5000	567065.3	4.4999	-0.0001
8.0000	486751.2	8.0000	-0.0000
11.5000	419142.2	11.5001	0.0001
15.0000	362042.3	15.0001	0.0001
18.5000	313662.5	18.5000	0.0000
22.0000	272542.2	22.0000	-0.0000
25.5000	237484.5	25.4999	-0.0001
29.0000	207507.3	28.9999	-0.0001
32.5000	181799.6	32.5001	0.0001

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

