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SENSOR SERIAL NUMBER: 0810 CALIBRATION DATE: 14-Jan-25

## SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -2.639934e-005 a1 = 2.806820e-004 a2 = -2.612870e-006 a3 = 1.650756e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	701882.2	-1.5000	0.0000
1.0000	627492.6	1.0000	-0.0000
4.5000	537926.9	4.5000	-0.0000
8.0000	462637.7	8.0000	-0.0000
11.5000	399135.2	11.5000	0.0000
15.0000	345401.7	15.0000	0.0000
18.5000	299788.8	18.5000	0.0000
22.0000	260949.1	22.0000	0.0000
25.5000	227779.0	25.4999	-0.0001
29.0001	199365.3	29.0000	-0.0001
32.5000	174958.2	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 ( ${}^{\circ}C$ ) = instrument temperature - bath temperature

