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SENSOR SERIAL NUMBER: 7297  
CALIBRATION DATE: 07-Apr-23

SBE 16plus V2 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.253282e-003  
a1 = 2.730623e-004  
a2 = -8.798290e-007  
a3 = 1.705201e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	563664.200	1.0001	0.0001
4.5000	497819.200	4.4999	-0.0001
15.0000	336803.900	15.0001	0.0001
18.5000	294160.300	18.5000	-0.0000
24.0000	236661.909	24.0000	0.0000
29.0000	193203.900	28.9999	-0.0001
32.5000	167081.000	32.5001	0.0001

n = Instrument Output (counts)

$MV = (n - 524288) / 1.6e+007$

$R = (MV * 2.900e+009 + 1.024e+008) / (2.048e+004 - MV * 2.0e+005)$

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

Residual (°C) = instrument temperature - bath temperature

