## Interpreting results

Data generated using Advanced Instruments standards and reference solutions may be analyzed according to the accuracy and precision specifications of the instrument (see *Product Specifications - The Advanced Osmometer Model 3320 User's Guide* (p/n 3325)).

Laboratories may choose to employ one, two, or three standard deviations (SD) for accuracy based on what is relevant in their laboratories. For normally distributed data, approximately 68% of the individual data values will fall within one standard deviation of the mean, approximately 95% within two standard deviations, and approximately 99.7% within three standard deviations.

Advanced Instruments Standards		Accuracy (mOsm/kg H₂O)		
and Reference Solutions	Precision	1 SD	2 SD	3 SD
Clinitrol™ 290 Reference Solution	Standard deviation ≤2 mOsm/kg H <sub>2</sub> O	288-292	286-294	284-296
50 mOsm/kg Calibration Standard	Standard deviation ≤2 mOsm/kg H <sub>2</sub> O	48-52	46-54	44-56
100 mOsm/kg Calibration Standard	Standard deviation ≤2 mOsm/kg H <sub>2</sub> O	98-102	96-104	94-106
200 mOsm/kg Calibration Standard	Standard deviation ≤2 mOsm/kg H <sub>2</sub> O	198-202	196-204	194-206
400 mOsm/kg Calibration Standard	Standard deviation ≤2 mOsm/kg H <sub>2</sub> O	398-402	396-404	394-406
500 mOsm/kg Calibration Standard	Coefficient of variation ≤0.5%	497-503	494-506	491-509
850 mOsm/kg Calibration Standard	Coefficient of variation ≤0.5%	845-855	840-860	835-865
900 mOsm/kg Calibration Standard	Coefficient of variation ≤0.5%	895-905	890-910	885-915
1000 mOsm/kg Calibration Standard	Coefficient of variation ≤0.5%	995-1005	990-1010	985-1015
1500 mOsm/kg Calibration Standard	Coefficient of variation ≤0.5%	1492-1508	1484-1516	1476-1524
2000 mOsm/kg Calibration Standard	Coefficient of variation ≤0.5%	1990-2010	1980-2020	1970-2030



Model 3320 Osmometer

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