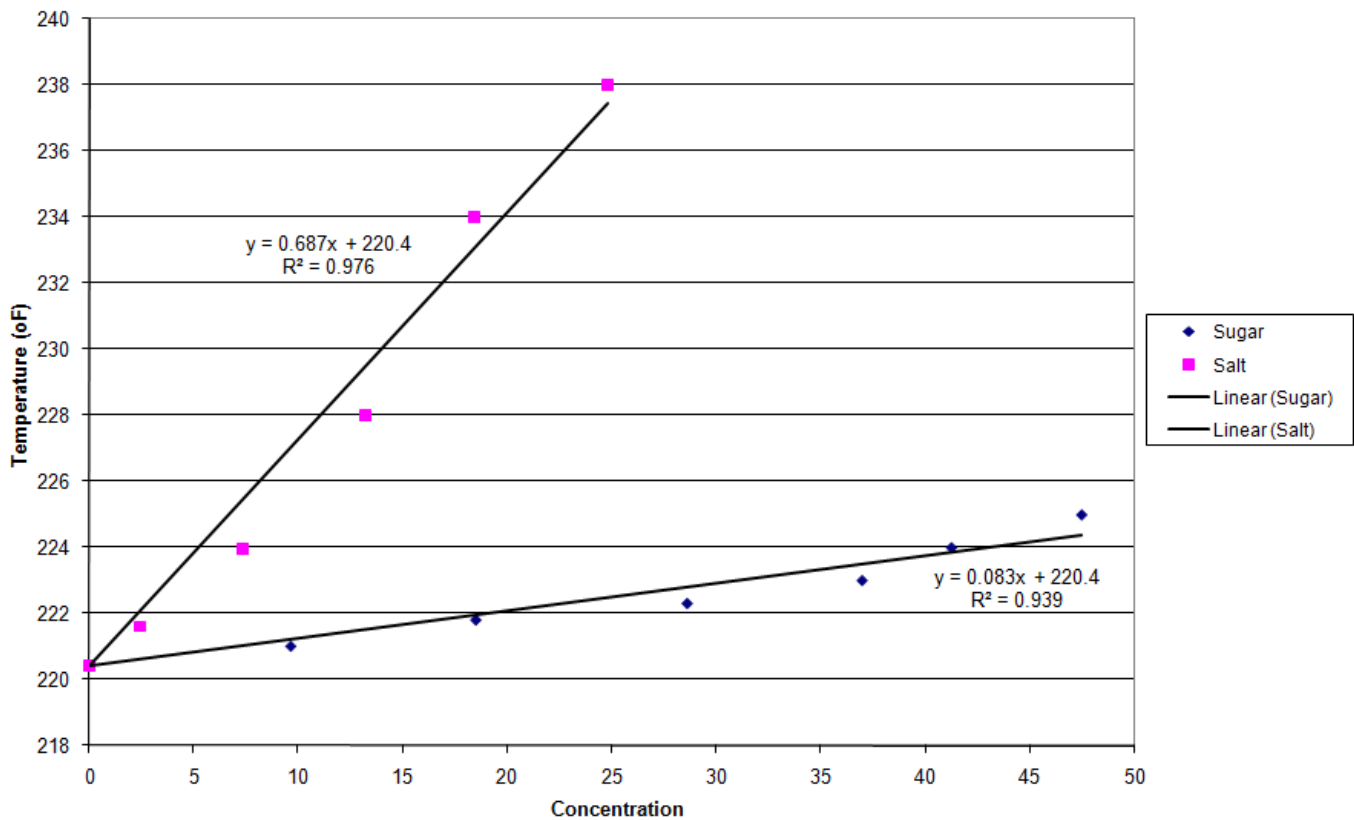


**Example Data:**

**Concentration Boiling Points**



**Salt Data:**

Msolute (gram)	MH2O (gram)	Msolution (gram)	Concentration (%)	Tboil (°F)
0	200.0	200.0	0.00	220.4
5	199.1	204.1	2.45	221.6
15	189.7	204.7	7.33	223.9
30	196.8	226.8	13.23	228.0
45	199.7	244.7	18.39	234.0
65	197.1	262.1	24.80	238.0
80	195.5	275.5	29.04	238.0

**Sugar Data:**

Msolute (gram)	MH2O (gram)	Msolution (gram)	Concentration %	Tboil (°F)
0	200.0	200.0	0.00	220.4
20	187.6	207.6	9.63	221.0
45	198.6	243.6	18.48	221.8
80	200.0	280.0	28.57	222.3
115	196.4	311.4	36.93	223.0
140	199.8	339.8	41.20	224.0
180	199.6	379.6	47.42	225.0

**General Calculations based on above data:**

1. Salt Solutions:

It requires 2.8grams salt for every 200mL water to increase the boiling point by 1°F. Therefore, would take 11.06grams to increase the boiling point of 200mL water by 4°F.

2. Sugar Solutions:

It requires 38.3grams sugar for every 200mL water in increase the boiling point by 1°F. Therefore, it would take 153.2 grams to increase the boiling point of 200mL water by 4°F.