



Brine Strength - making and adjusting brines

Steps Method: Making a brine (work with a partner)

- 1 Take between 1 litre and 2 litres of water. Place in a suitable container.
- 2 Calculate how much salt is needed to produce a) a 60 degree brine, b) a 90 degree brine.
- 3 Dissolve the salt to produce either brine a or brine b (*1 brine type per partner)
- 4 What volume of brine has been produced?
- 5 Measure the strength of the resulting brine and record your results.

Method: Adjusting a brine (work with a partner)

- 6 Calculate the amount of salt required to adjust 1 litre of 60 degree brine to 80 degree brine
- 7 How much salt is needed to adjust your (*or your Partner's) volume of 60 brine ?
- 8 When you adjust your brine and measure it, what is the final strength?
- 9 Calculate how much water is required to adjust 1 litre of 90 degree brine to 80 degree brine.
- 10 How much water is required to adjust your (*or your partner's) 90 degree brine ?
- 11 When you adjust your brine and measure it, what is the final strength?

Results

1	Volume of water		litres
2a	Qty salt for 60 Degree brine		grams
2b	Qty salt for 90 degree brine		grams
4	Brine volume		litres
5	Measured strength of finished brine		degrees

6	Salt to adjust 60 to 80 degree brine		grams
7	Qty salt to adjust your brine?		grams
8	Final adjusted strength is		degrees
9	Water to adjust 90 to 80 degree brine		litres
10	Qty Water to adjust your brine?		litres
11	Final adjusted strength is		degrees