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| NaCl-brine Heating | #formation\_fluidsolution 1-units mol/kgwtemp 10Ca 2.59e-2Cl 6.737Fe 2.76e-6K 1.78e-2Mg 5.02e-4Na 5.467S 3.69e-2Equilibrium\_PhasesHalite  REACTION\_TEMPERATURE 110 120 in 12 |
| NaCl-brine Cooling | #formation\_fluidsolution 1-units mol/kgwtemp 120pH 5.683Ca 2.59e-2Cl 7.566Fe 2.76e-6K 1.78e-2Mg 5.02e-4Na 6.296S 3.69e-2Equilibrium\_PhasesHalite  REACTION\_TEMPERATURE 1120 10 in 12 |

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| MgCl2-brine Heating | #formation\_fluidsolution 1-units mol/kgwtemp 10Ph 7.0Cl 11.55Mg 5.591Na 0Equilibrium\_PhasesHalite  REACTION\_TEMPERATURE 110 120 in 12 |
| MgCl2-brine Cooling | #formation\_fluidsolution 1-units mol/kgwtemp 120PH 5.1Cl 1.193e+01 Mg 5.591e+00 Na 3.811e-01 Equilibrium\_PhasesHalite REACTION\_TEMPERATURE 1120 10 in 12 |

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| NaCl-MgCl2-brine Heating | #formation\_fluidsolution-units mol/kgwtemp 10pH 6.7Ca 5.76E-03Ca 5.76E-03Cl 11.45Fe 3.00E-07K 1.93E-03Mg 5.614Na 7.53E-02S 6.95E-03Equilibrium\_PhasesHalite REACTION\_TEMPERATURE 110 120 in 12 |
| NaCl-MgCl2-brine Cooling | #formation\_fluidsolution-units mol/kgwtemp 120pH 4.86Ca 5.76E-03Cl 1.18E+01Fe 3.00E-07K 1.93E-03Mg 5.61E+00Na 3.82E-01S 6.95E-03Equilibrium\_PhasesHaliteREACTION\_TEMPERATURE 1120 10 in 12 |