

## D. Salt-Ice Cooling Mixtures

This table lists salt/ice cooling mixtures that can be obtained by mixing the salt (at about room temperature) with water or ice at the specified temperature in the amount noted. In actual practice, these temperatures are often difficult to reach and may depend on rate of stirring and on how finely crushed the ice is.

Substance	Initial Temperature (°C)	g/100g H <sub>2</sub> O	Final Temperature (°C)
Na <sub>2</sub> CO <sub>3</sub>	-1 (ice)	20	-2.0
NH <sub>4</sub> NO <sub>3</sub>	20	106	-4.0
NaC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	10.7	85	-4.7
NH <sub>4</sub> Cl	13.3	30	-5.1
NaNO <sub>3</sub>	13.2	75	-5.3
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ·5H <sub>2</sub> O	10.7	110	-8.0
CaCl <sub>2</sub> ·6H <sub>2</sub> O	-1 (ice)	41	-9.0
KCl	0 (ice)	30	-10.9
KI	10.8	140	-11.7
NH <sub>4</sub> NO <sub>3</sub>	13.6	60	-13.6
NH <sub>4</sub> Cl	-1 (ice)	25	-15.4
NH <sub>4</sub> NO <sub>3</sub>	-1 (ice)	45	-16.8
NH <sub>4</sub> SCN	13.2	133	-18.0
NaCl	-1 (ice)	33	-21.3
CaCl <sub>2</sub> ·6H <sub>2</sub> O	0 (ice)	81	-21.5
H <sub>2</sub> SO <sub>4</sub> (66.2%)	0 (ice)	23	-25
NaBr	0 (ice)	66	-28
H <sub>2</sub> SO <sub>4</sub> (66.2%)	0 (ice)	40	-30
C <sub>2</sub> H <sub>5</sub> OH (4°)	0 (ice)	105	-30
MgCl <sub>2</sub>	0 (ice)	85	-34
H <sub>2</sub> SO <sub>4</sub> (66.2%)	0 (ice)	91	-37
CaCl <sub>2</sub> ·6H <sub>2</sub> O	0 (ice)	123	-40.3
CaCl <sub>2</sub> ·6H <sub>2</sub> O	0 (ice)	143	-55