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## Solubilities and Relative Humidities of Saturated Solutions of Salts

Relative humidities are from Louis B. Rockland, "Saturated Salt Solutions for Static Control of Relative Humidity between 5° and 40° C", Analytical Chemistry **32**, 1375 (1960).

Solubility data are from the CRC Handbook of Chemistry and Physics.

Salt		Solubility g/ml	r.h.
Disodium Phosphate	$\text{Na}_2\text{P}_2\text{O}_6 \cdot 10\text{H}_2\text{O}$	0.015	97%
Potassium Sulfate	$\text{K}_2\text{SO}_4$	0.12	97%
Potassium nitrate	$\text{KNO}_3$	0.38	93%
Barium Chloride	$(\text{Ba})\text{Cl}_2$	0.38	90%
Sodium benzoate	$\text{NaC}_7\text{H}_5\text{O}_2$	0.67	88%
Potassium chromate	$\text{K}_2\text{CrO}_4$	0.64	87%
Potassium chloride	KCL	0.40	86%
Lithium sulfate	$\text{Li}_2\text{SO}_4$	0.26	85%
Potassium bromide	KBr	0.66	83%
Cadmium chloride	$\text{CdCl}_2$	1.41	82%
Ammonium sulfate	$(\text{NH}_4)_2\text{SO}_4$	0.79	79%
Sodium chloride	NaCl	0.37	75%
Strontium chloride	$\text{SrCl}_2$	0.57	75%
Cupric chloride	$\text{CuCl}_2$	0.76	67%
Sodium bromide	NaBr	1.16	57%
Magnesium nitrate	$\text{Mg}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	1.25	52%
Potassium carbonate	$\text{K}_2\text{CO}_3$	1.15	43%
Magnesium chloride	$\text{MgCl}_2$	0.56	33%
Magnesium bromide	$\text{MgBr}_2$	1.05	31%
Potassium acetate	$\text{KC}_2\text{H}_3\text{O}_2$	2.81	23%
Lithium chloride	LiCl	0.80	11%

Saturated Salt Solutions for Dehydration Available [Here](#)