

TABLE 8

Composition of Commonly Used Crystalloids^{1,2,3,4}

	Osmolarity (mOsm/L)	pH	Na (mEq/L)	Cl (mEq/L)	K (mEq/L)	Mg (mEq/L)	Ca (mEq/L)	Dextrose (g/L)	Buffers
REPLACEMENT CRYSTALLOID FLUIDS									
Hypertonic Crystalloids									
3% NaCl	1027	5.0	513	513	0	0	0	0	None
5% NaCl	1711	5.0	856	856	0	0	0	0	None
7.5% NaCl	2464	5.2	1283, 1232	1283, 1232	0	0	0	0	None
23.4% NaCl	8008	5.0	4004	4004	0	0	0	0	None
Isotonic Crystalloids									
0.9% NaCl	308	5.6, 5.7 (4.5 - 7.0)	154	154	0	0	0	0	None
Plasma-Lyte A	294	7.4	140	103	5	3	0	0	Acetate, Gluconate
Plasma-Lyte 148	294	5.5	140	98	5	3	0	0	Acetate, Gluconate
Normosol R	294	7.4, 6.6	140	98	5	3	0	0	Acetate, Gluconate
Lactated Ringer's	273	6.7	130	110	4	0	2.7	0	Lactate
MAINTENANCE CRYSTALLOID FLUIDS									
Hypotonic Crystalloids									
Plasma-Lyte 56 in 5% dextrose	363	5.0 (4.0 - 6.5)	40	40	13	3	0	50	Acetate
0.45% NaCl	154	5.5	77	77	0	0	0	0	None
0.45 NaCl in 2.5% dextrose	280	4.5	77	77	0	0	0	25	None
5% dextrose in water	253	5.0, 4.3 (3.2 - 6.5)	0	0	0	0	0	50	None
Normosol M in 5% dextrose	363	5.2	40	40	13	3	0	50	None

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The 2024 Fluid Therapy Guidelines for Dogs and Cats are available at aaha.org/fluid-therapy.

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