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Conductivity Values μ Mhos /cm at 77°F (25°C)

% Weight	ppm mg/l	NaCl	NaOH	HCl	Acetic acid
0.0001	1	2.2	6.2	11.7	4.2
0.0003	3	6.5	18.4	35.0	7.4
0.001	10	21.4	61.1	116	15.5
0.003	30	64	182	340	30.6
0.01	100	210	603	1140	63
0.03	300	617	1780	3390	114
0.1	1000	1990	5820	11,100	209
0.3	3000	5690	16,900	32,200	368
1.0	10,000	17,600	53,200	103,000	640
3.0	—	48,600	144,000	283,000	1120
5.0	—	78,300	223,000	432,000	1230
10.0	—	140,000	358,000	709,000	1530
20.0	—	226,000	414,000	850,000	1600
30.0	—	Saturated	292,000	732,000	1405
40.0	—	Saturated	191,000	Saturated	1080
50.0	—	Saturated	150,000	Saturated	740
75.0	—	Saturated	Saturated	Saturated	168
100.0	—	Saturated	Saturated	Saturated	<1

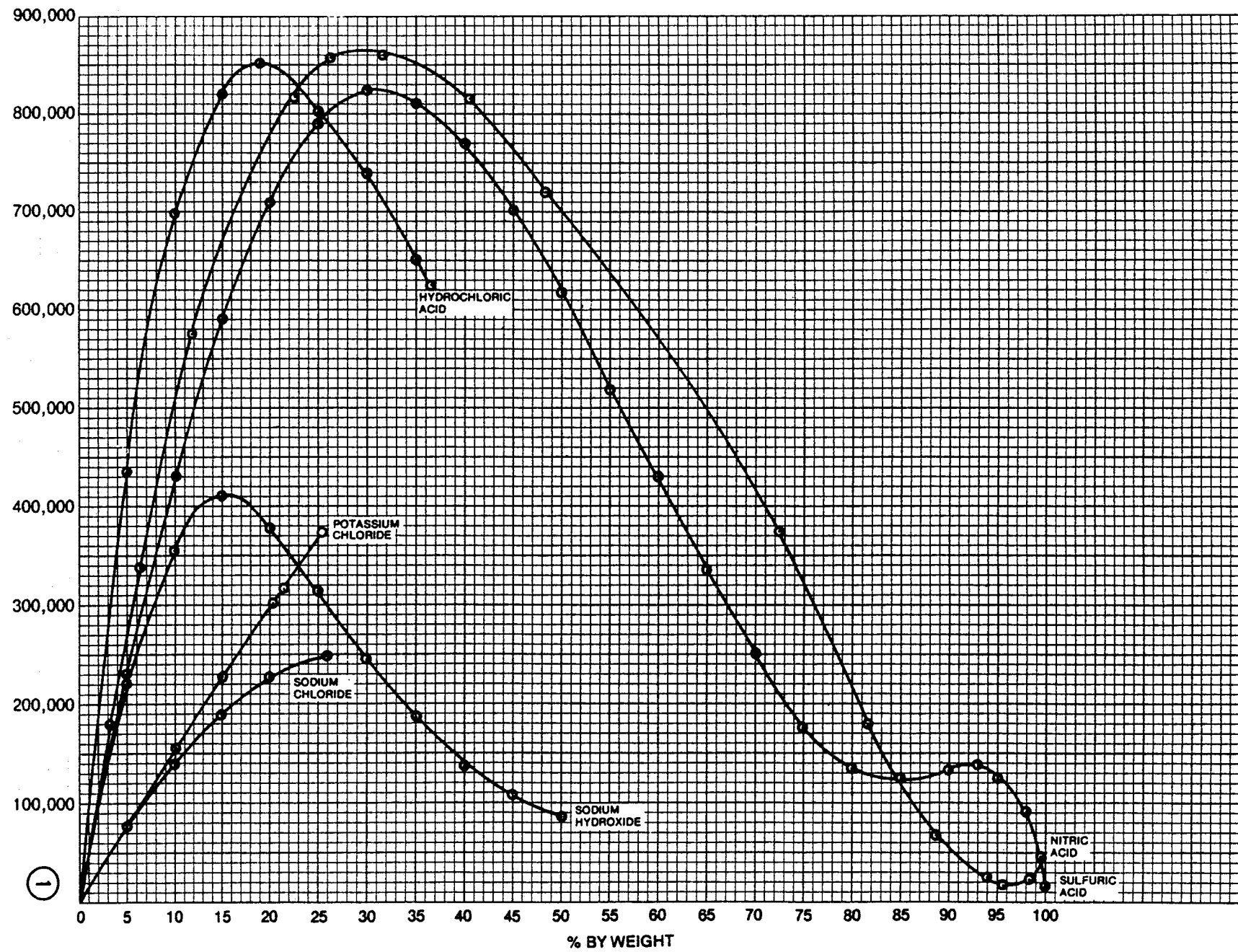
INDEX OF ELECTROLYTES

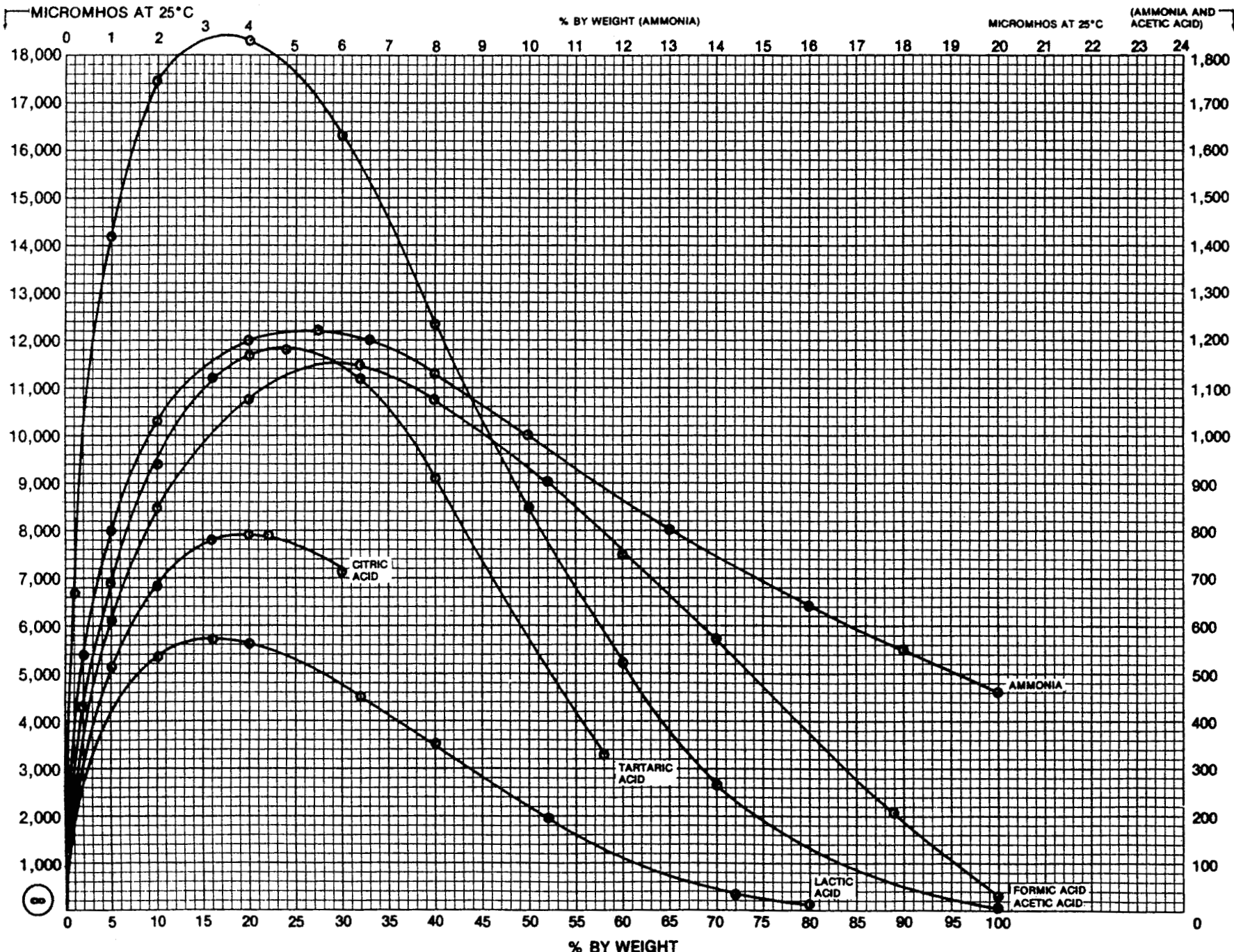
<u>Substance</u>	<u>Chemical Formula</u>	<u>Maximum conduc- tance and point of inflection at 25°C (where appli- cable) [μmhos/cm % by wt.]</u>	<u>Mol. Wt. (Anhydrous)</u>	<u>Graph No.</u>
1. Acetic acid	CH_3COOH	1,850/3.5%	60.05	8
2. Aluminum chloride	AlCl_3	--	133.34	12
3. *Ammonia/Ammonium Hydroxide	$\text{NH}_3/\text{NH}_4\text{OH}$	1,200/5.5%	17.03/35.05	8
4. *Ammonium bifluoride	$\text{NH}_4\text{F} \cdot \text{HF}$	--	57.04	13
5. Ammonium chloride	NH_4Cl	--	53.50	19
6. Ammonium fluoride	NH_4F	--	37.04	13
7. Ammonium iodide	NH_4I	--	144.94	20
8. Ammonium nitrate	NH_4NO_3	--	80.04	19
9. Ammonium sulfate	$(\text{NH}_4)_2\text{SO}_4$	--	132.14	17
10. Ammonium thiocyanate	NH_4SCN	--	76.12	16
11. Barium chloride	BaCl_2	--	208.25	14
12. *Barium hydroxide	$\text{Ba}(\text{OH})_2$	--	171.39	10
13. *Barium nitrate	$\text{Ba}(\text{NO}_3)_2$	--	261.38	9
14. Cadmium bromide	CdBr_2	30,000/32%	272.24	15
15. Cadmium chloride	CdCl_2	35,000/22%	183.32	11
16. Cadmium iodide	CdI_2		366.25	15
17. Cadmium nitrate	$\text{Cd}(\text{NO}_3)_2$	108,000/32%	164.10	15
18. Cadmium sulfate	CdSO_4	51,000/27%	208.48	15
19. Calcium chloride	CaCl_2	204,000/24%	110.99	17
20. Calcium nitrate	$\text{Ca}(\text{NO}_3)_2$	122,000/25%	164.10	15
21. Cesium chloride	CsCl	--	168.37	19
22. Chromic acid	CrO_3	670,000/35%	99.99	20
23. Citric acid	$(\text{COOH})\text{CH}_2\text{C}(\text{OH})(\text{COOH}) \cdot \text{H}_2\text{O}$	7,900/20%	210.14 (Hyd.)	8
24. Cobaltous Chloride	CoCl_2	--	129.84	12
25. Cupric chloride	CuCl_2	108,000/23%	134.45	17
26. Cupric nitrate	$\text{Cu}(\text{NO}_3)_2$	134,000/28%	187.55	14

	<u>Substance</u>	<u>Chemical Formula</u>	<u>Maximum Conductance</u>	<u>Mol Wt. (Anhydrous)</u>	<u>Graph No.</u>
27.	Cupric sulfate	CuSO_4	--	159.61	12
28.	(Ethylenediamine) Tetraacetic acid disodium salt, EDTA sodium	$\text{Na}_2\text{C}_{10}\text{H}_{14}\text{O}_8\text{N}_2 \cdot 2\text{H}_2\text{O}$	--	372.24 (Hyd.)	9
29.	Ferric chloride	FeCl_3	96,000/16%	162.22	15
30.	Ferrous sulfate	FeSO_4	53,000/24%	151.94	12
31.	Formic acid	HCOOH	11,500/30%	46.03	8
32.	Hydrobromic acid	HBr	--	80.92	20
33.	Hydrochloric acid	HCl	850,000/19%	36.47	1
34.	Hydrofluoric acid	HF	--	20.01	19
35.	Hydroiodic acid	HI	--	127.93	20
36.	Iodic acid	HIO_3	--	175.93	18
37.	Lactic acid	$\text{CH}_3\text{CHOH COOH}$	5,700/15%	90.08	8
38.	Lanthanum nitrate	$\text{La}(\text{NO}_3)_3$	97,000/28%	324.93	14
39.	Lead (plumbous) nitrate	$\text{Pb}(\text{NO}_3)_2$	--	331.23	14
40.	Lithium chloride	LiCl	190,000/21%	42.40	17
41.	Lithium hydroxide	LiOH	380,000/11%	23.95	19
42.	Lithium iodide	LiI	--	133.86	13
43.	Lithium sulfate	Li_2SO_4	83,000/18%	109.95	13
44.	Magnesium chloride	MgCl_2	160,000/18%	95.23	17
45.	Magnesium nitrate	$\text{Mg}(\text{NO}_3)_2$	--	148.34	12
46.	Magnesium sulfate	MgSO_4	58,000/17%	120.37	13
47.	Manganous chloride	MnCl_2	130,000/20%	125.84	14
48.	Manganous sulfate	MnSO_4	51,500/22%	151.00	11
49.	Nickel sulfate	NiSO_4	--	154.78	13
50.	Nitric acid	HNO_3	865,000/29%	63.02	1
51.	Oxalic acid	$\text{HO}_2\text{CCO}_2\text{H}$	--	90.04	10
52.	Phosphoric acid	H_3PO_4	230,000/50%	98.00	18
53.	Potassium acetate	KCH_3CO_2	150,000/32%	98.14	18
54.	Potassium bicarbonate	KHCO_3	--	100.12	13
55.	Potassium biphthalate	$\text{KHC}_8\text{H}_4\text{O}_4$	--	204.23	9
56.	Potassium bromide	KBr	--	119.01	19
57.	Potassium carbonate	K_2CO_3	258,000/34%	138.21	18
58.	Potassium chloride	KCl	--	74.55	1

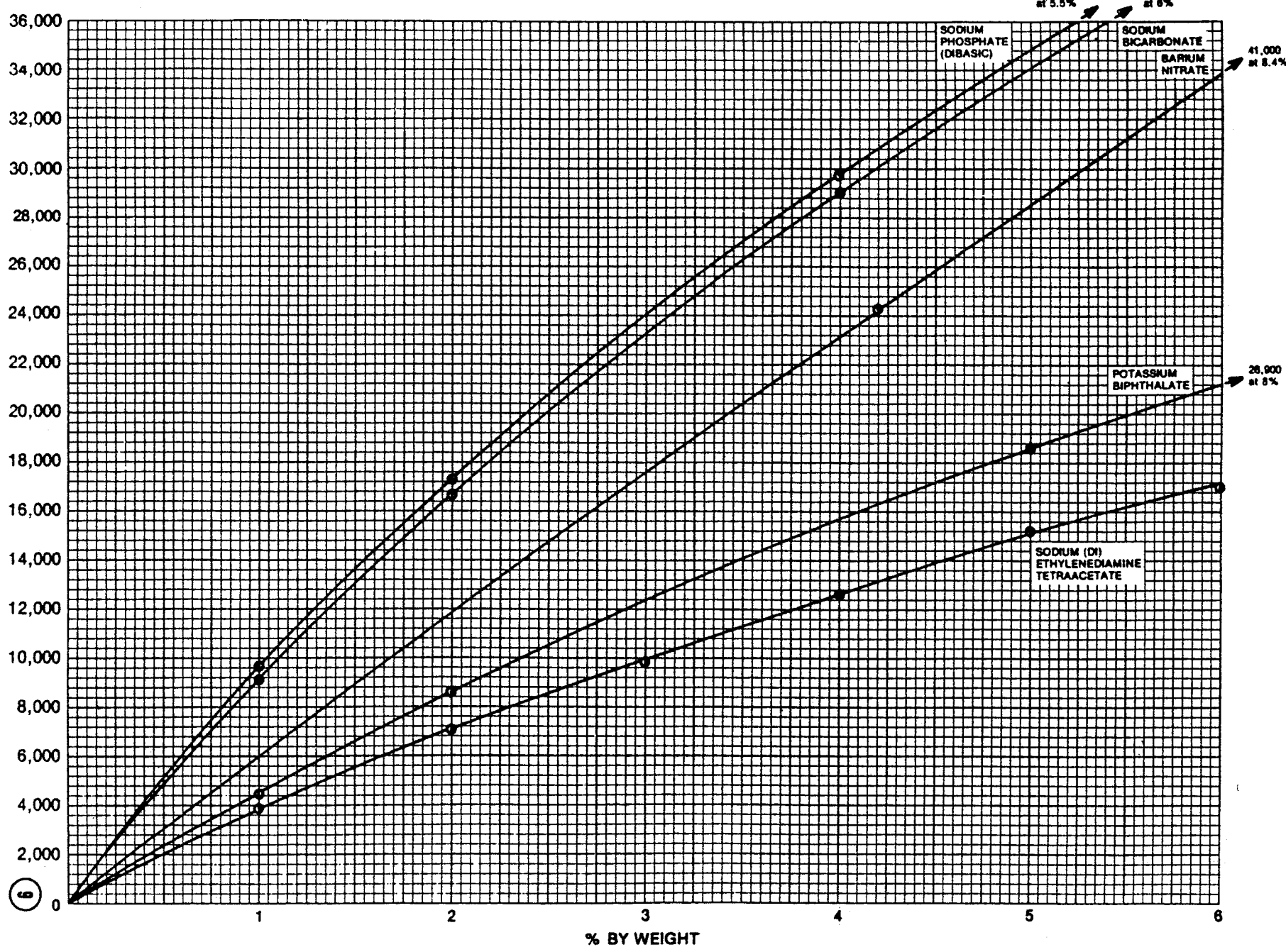
	<u>Substance</u>	<u>Chemical Formula</u>	<u>Maximum Conductance</u>	<u>Mol Wt. (Anhydrous)</u>	<u>Graph No.</u>
59.	Potassium chromate	K_2CrO_4	--	194.20	16
60.	Potassium cyanide	KCN	--	65.11	12
61.	Potassium dichromate	$K_2Cr_2O_7$	--	294.21	12
62.	Potassium ferricyanide	$K_3Fe(CN)_6$	--	329.26	19
63.	Potassium ferrocyanide	$K_4Fe(CN)_6$	--	368.36	12
64.	Potassium fluoride	KF	288,000/34%	58.10	18
65.	Potassium hydroxide	KOH	625,000/26%	56.11	20
66.	Potassium iodide	KI	--	166.03	20
67.	Potassium nitrate	KNO_3	--	101.10	13
68.	Potassium oxalate	$K_2C_2O_4$	--	166.22	13
69.	Potassium permanganate	$KMnO_4$	--	158.04	10
70.	Potassium phosphate (monobasic)	KH_2PO_4	--	136.13	10
71.	Potassium phosphate (dibasic)	K_2HPO_4	--	174.18	10
72.	Potassium sulfate	K_2SO_4	--	174.26	10
73.	Potassium sulfide	K_2S	535,000/30%	110.26	20
74.	Potassium thiocyanate	KSCN	--	97.18	16
75.	Procaine hydrochloride	$C_6H_4[COOCH_2CH_2N(C_2H_5)_2](NH_2) \cdot HCl-1,4$	34,000/32%	272.78	11
76.	Sea water	--	--	--	10
77.	*Silver fluoride	AgF	--	126.88	16
78.	Silver nitrate	$AgNO_3$	--	169.89	18
79.	Sodium acetate	$NaCH_3CO_2$	78,000/22%	82.04	11
80.	Sodium bicarbonate	$NaHCO_3$	--	84.01	9
81.	Sodium bromide	NaBr	--	102.91	16
82.	Sodium carbonate	Na_2CO_3	103,000/19%	106.01	12
83.	Sodium chloride	NaCl	--	58.44	1
84.	Sodium citrate	$Na_3C_6H_5O_7$	64,500/23%	258.07	11
85.	Sodium diatrizoate (Hypaque)	$Na(CH_3CONH)_2C_6I_3CO_2$	18,500/40%	635.92	11
86.	Sodium dichromate	$Na_2Cr_2O_7$	165,000/40%	261.97	15
87.	Sodium ferrocyanide	$Na_4Fe(CN)_6$	--	303.92	16

	<u>Substance</u>	<u>Chemical Formula</u>	<u>Maximum Conductance</u>	<u>Mol Wt. (Anhydrous)</u>	<u>Graph No.</u>
88.	Sodium hydroxide	NaOH	410,000/15%	40.01	1
89.	Sodium molybdate	Na ₂ Mo ₄	--	205.95	10
90.	Sodium nitrate	NaNO ₃	--	85.01	17
91.	Sodium phosphate (monobasic)	NaH ₂ PO ₄	60,000/28%	119.97	14
92.	Sodium phosphate (dibasic)	Na ₂ HPO ₄	--	141.98	9
93.	Sodium phosphate (tribasic)	Na ₃ PO ₄	--	163.96	10
94.	Sodium sulfate	Na ₂ SO ₄	--	142.07	13
95.	Sodium sulfide	Na ₂ S	262,000/15%	78.06	16
96.	Sodium tartrate	NaOOC(CHOH) ₂ COONa	68,500/24%	194.07	11
97.	Sodium thiocyanate	NaSCN	206,000/34%	81.08	18
98.	Sodium thiosulfate	Na ₂ S ₂ O ₃	152,000/29%	158.13	14
99.	Sodium tungstate	Na ₂ WO ₄	--	293.92	10
100.	Strontium chloride	SrCl ₂	198,000/30%	158.55	17
101.	Strontium nitrate	Sr(NO ₃) ₂	113,000/30%	211.65	14
102.	Sulfuric acid	H ₂ SO ₄	825,000/30%	98.08	1
103.	Sulfurous acid	H ₂ SO ₃	--	82.08	
104.	Tartaric acid	HO ₂ C(CHOH) ₂ CO ₂ H	11,800/24%	150.09	8
105.	Tetracaine hydrochloride	C ₁₅ H ₂₄ N ₂ O ₂ .HCl	--	300.84	10
106.	Trichloroacetic acid	CCl ₃ COOH	--	163.38	16
107.	Zinc chloride	ZnCl ₂	104,000/27%	136.29	18
108.	Zinc Sulfate	ZnSO ₄	56,500/4%	161.44	10

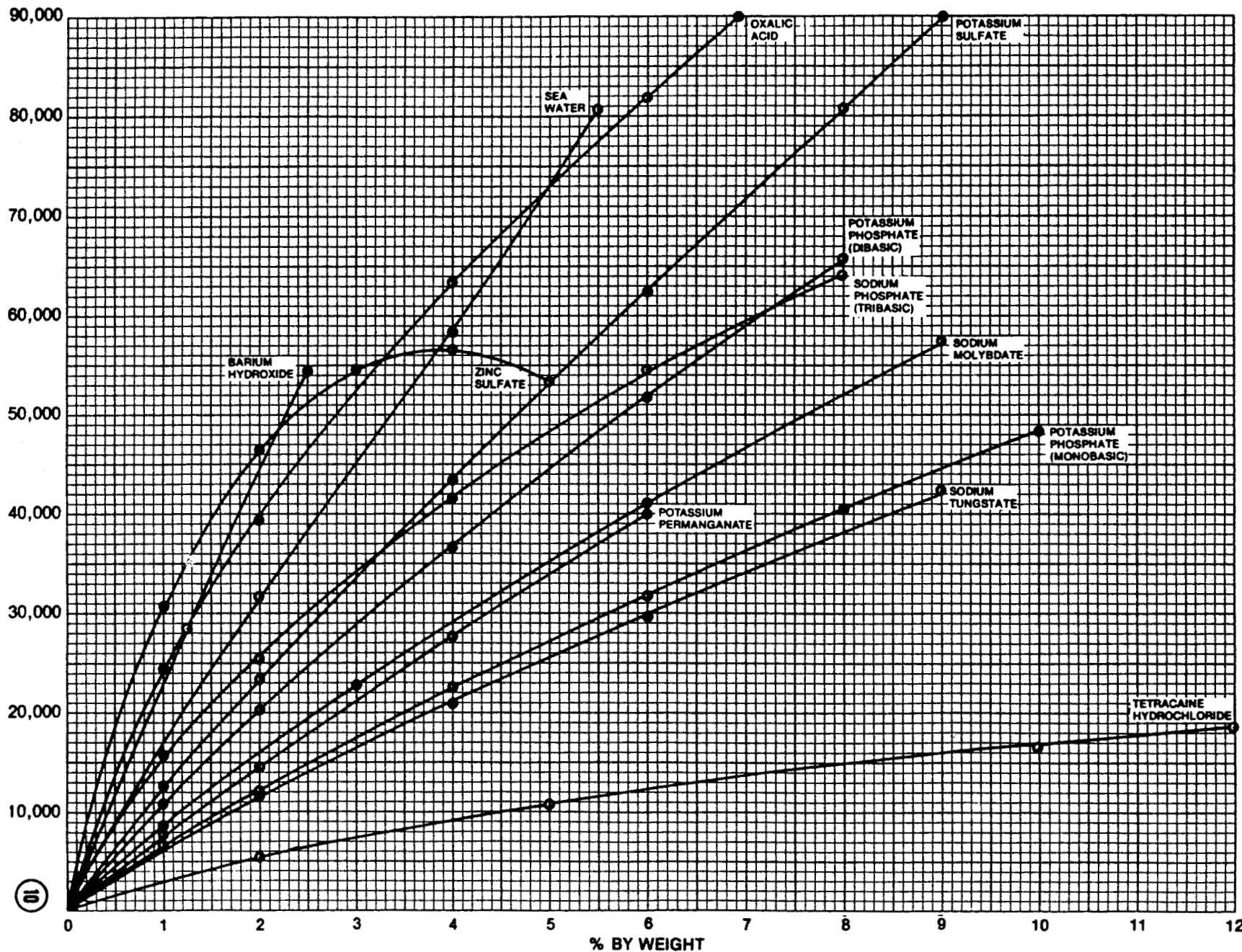




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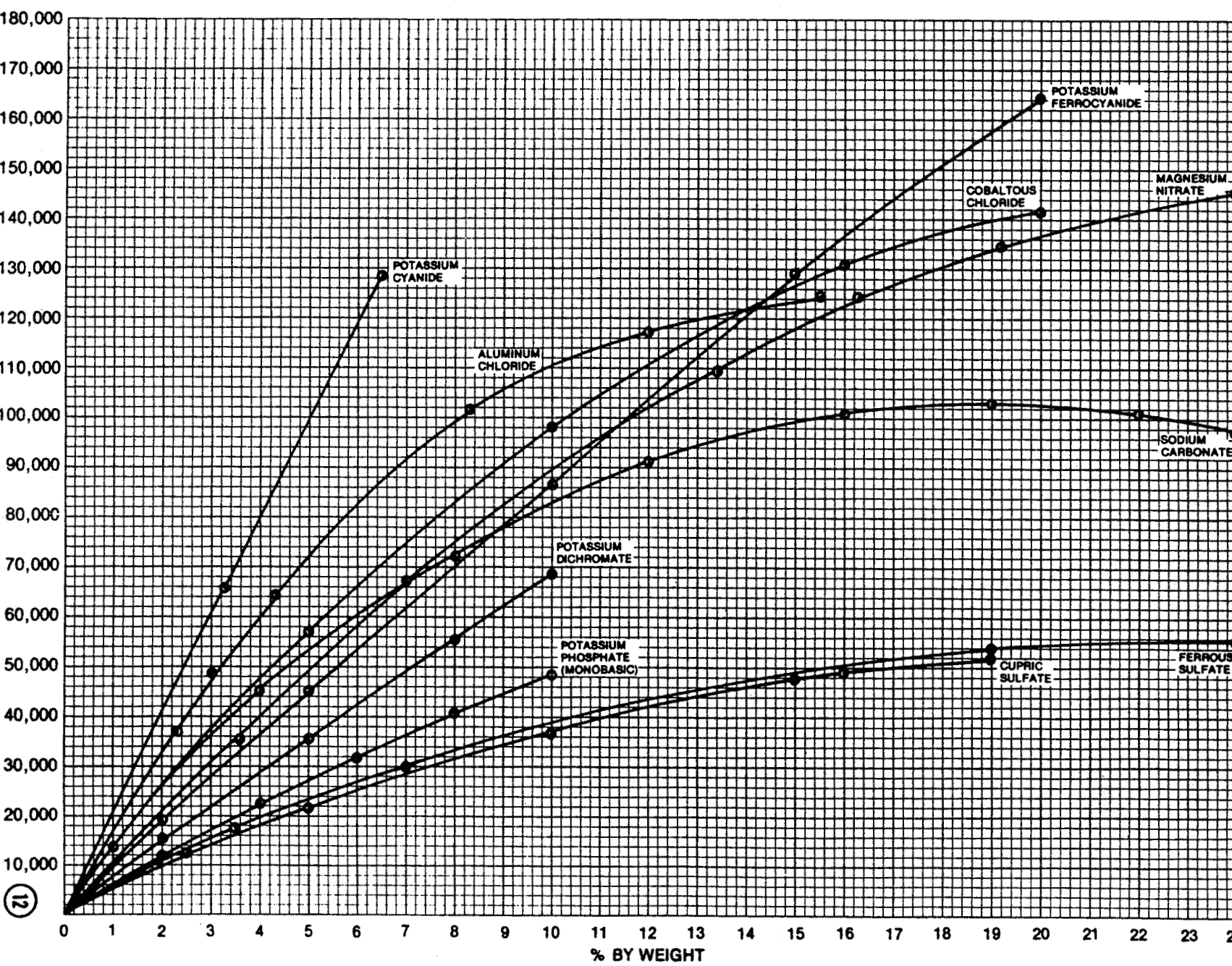


MICROMHOS AT 25°C



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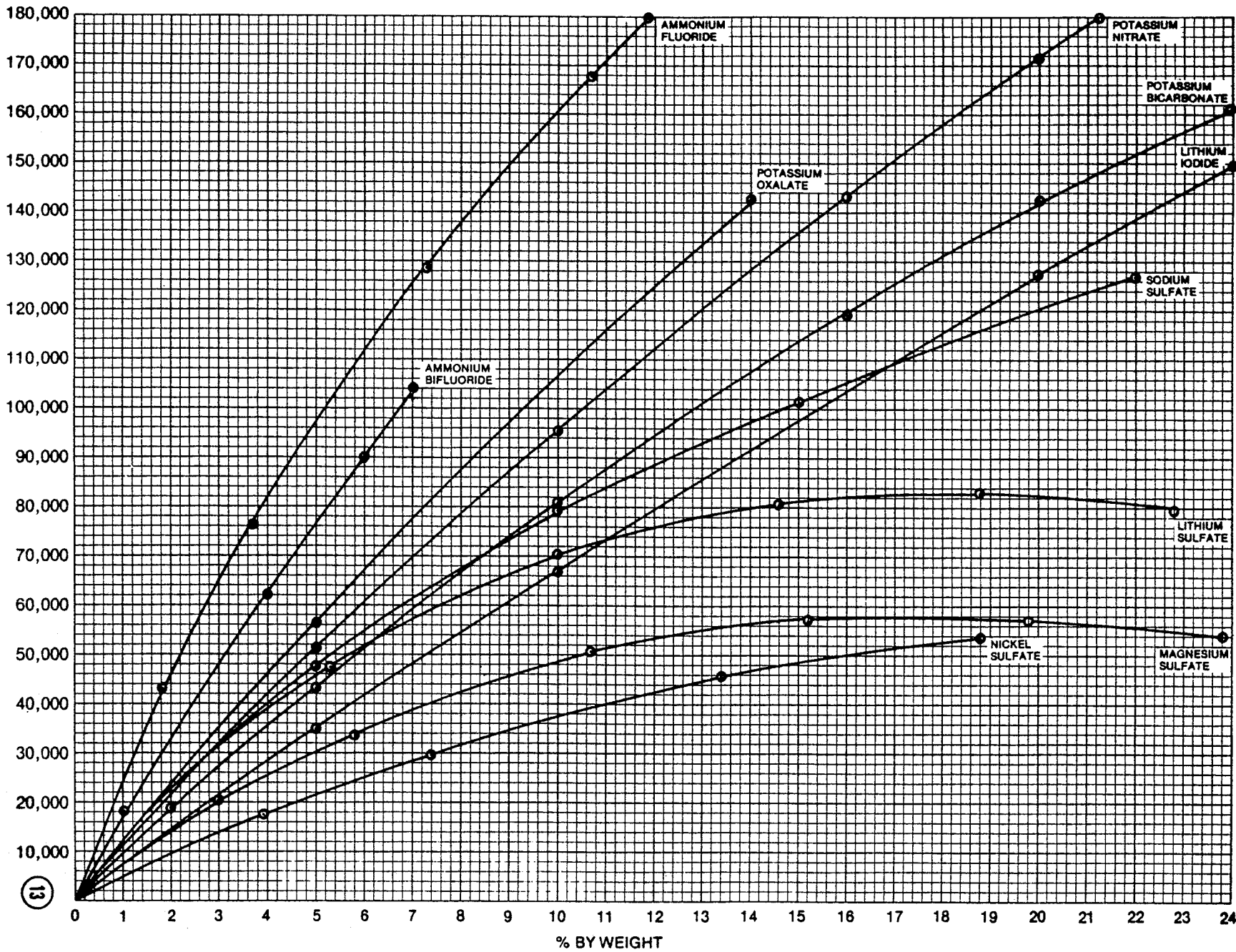
MICROMHOS AT 25°C



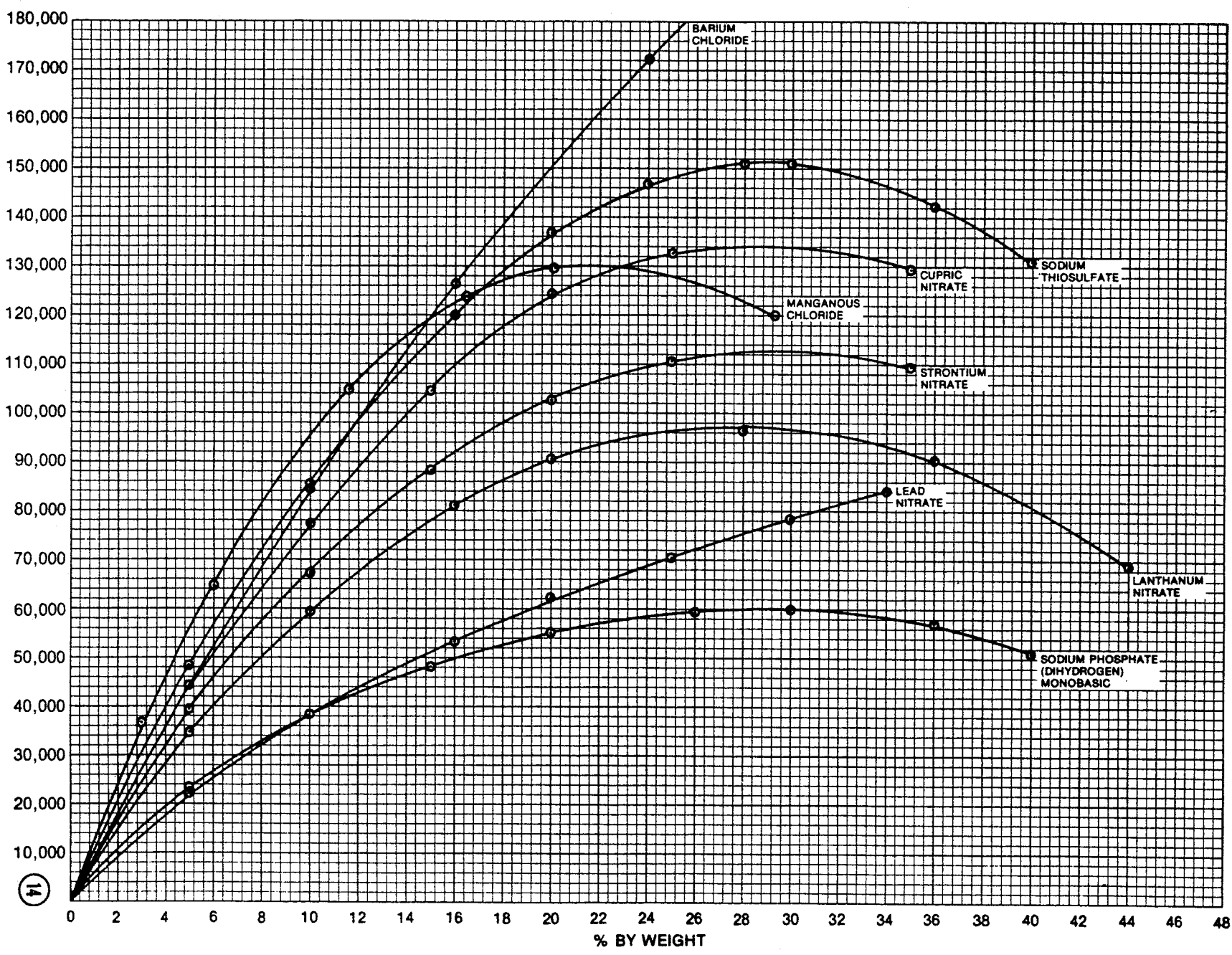
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% BY WEIGHT

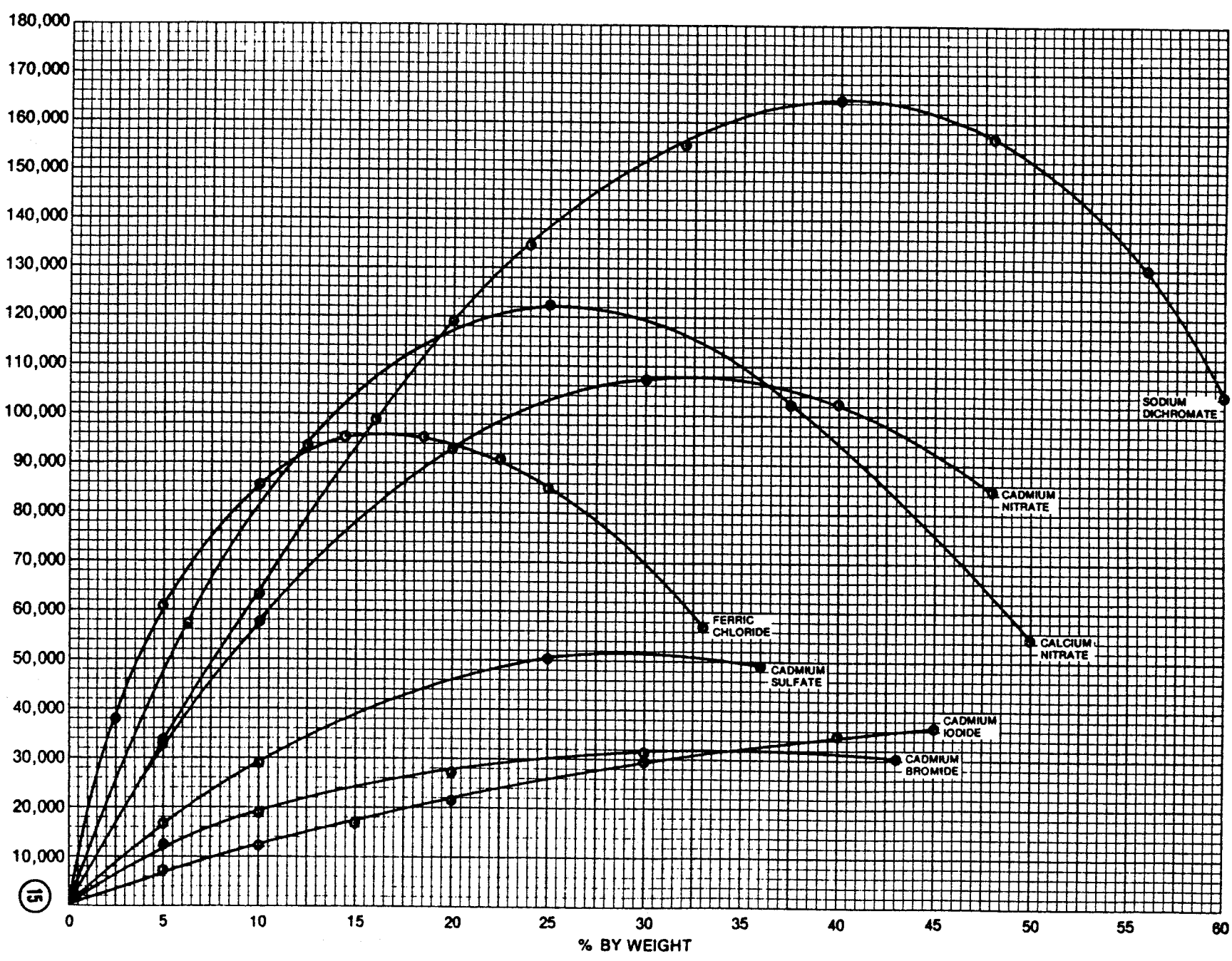
MICROMHOS AT 25°C

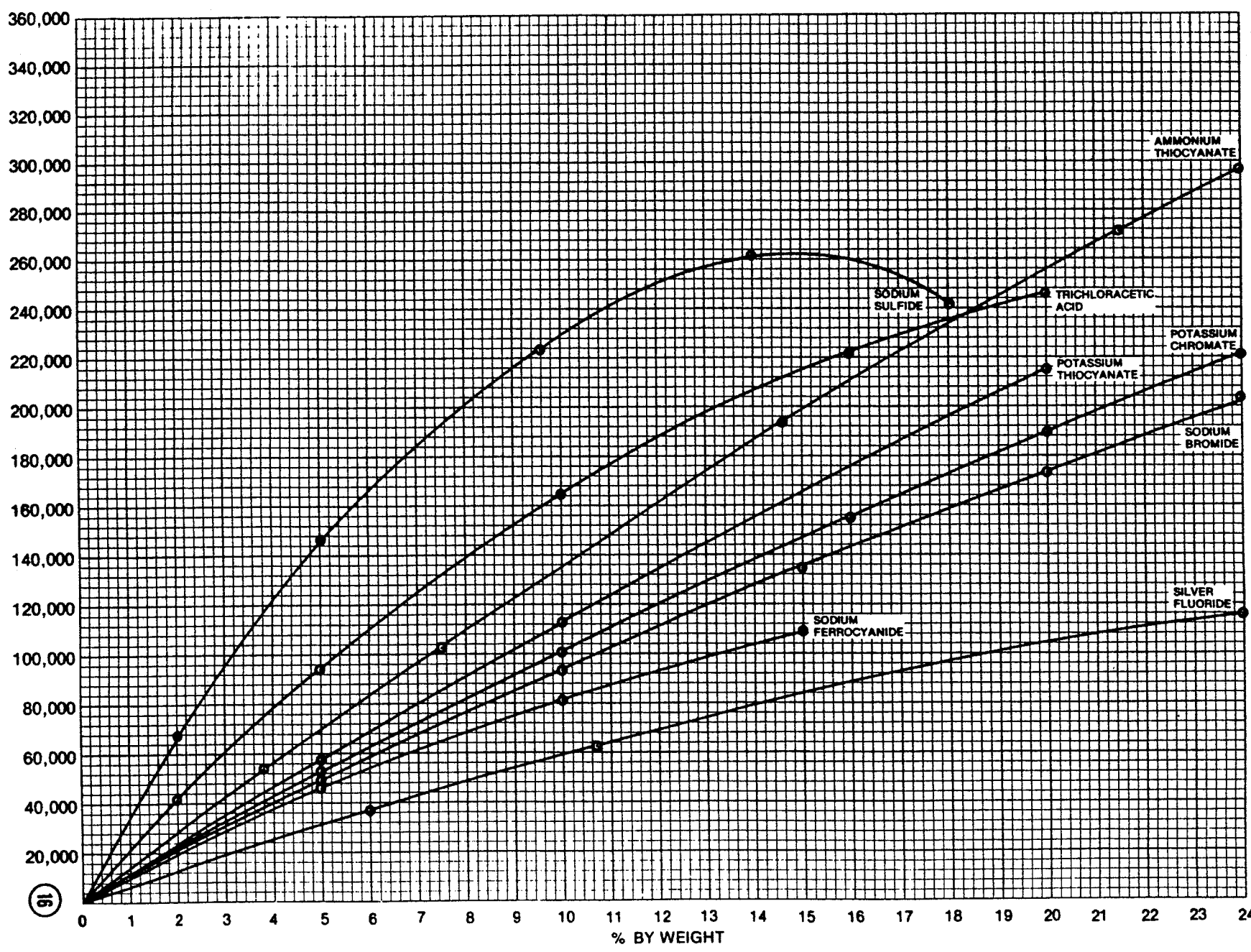


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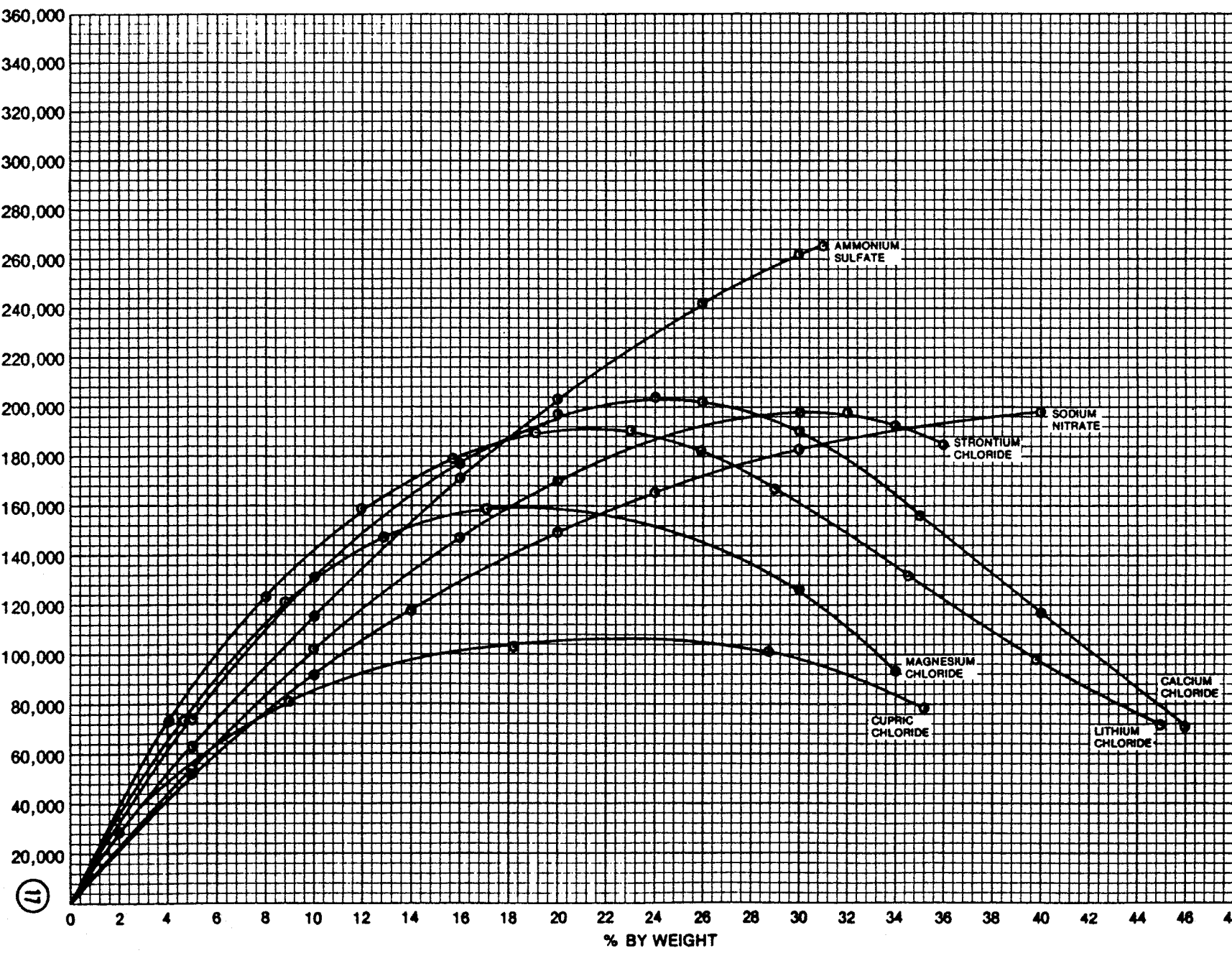


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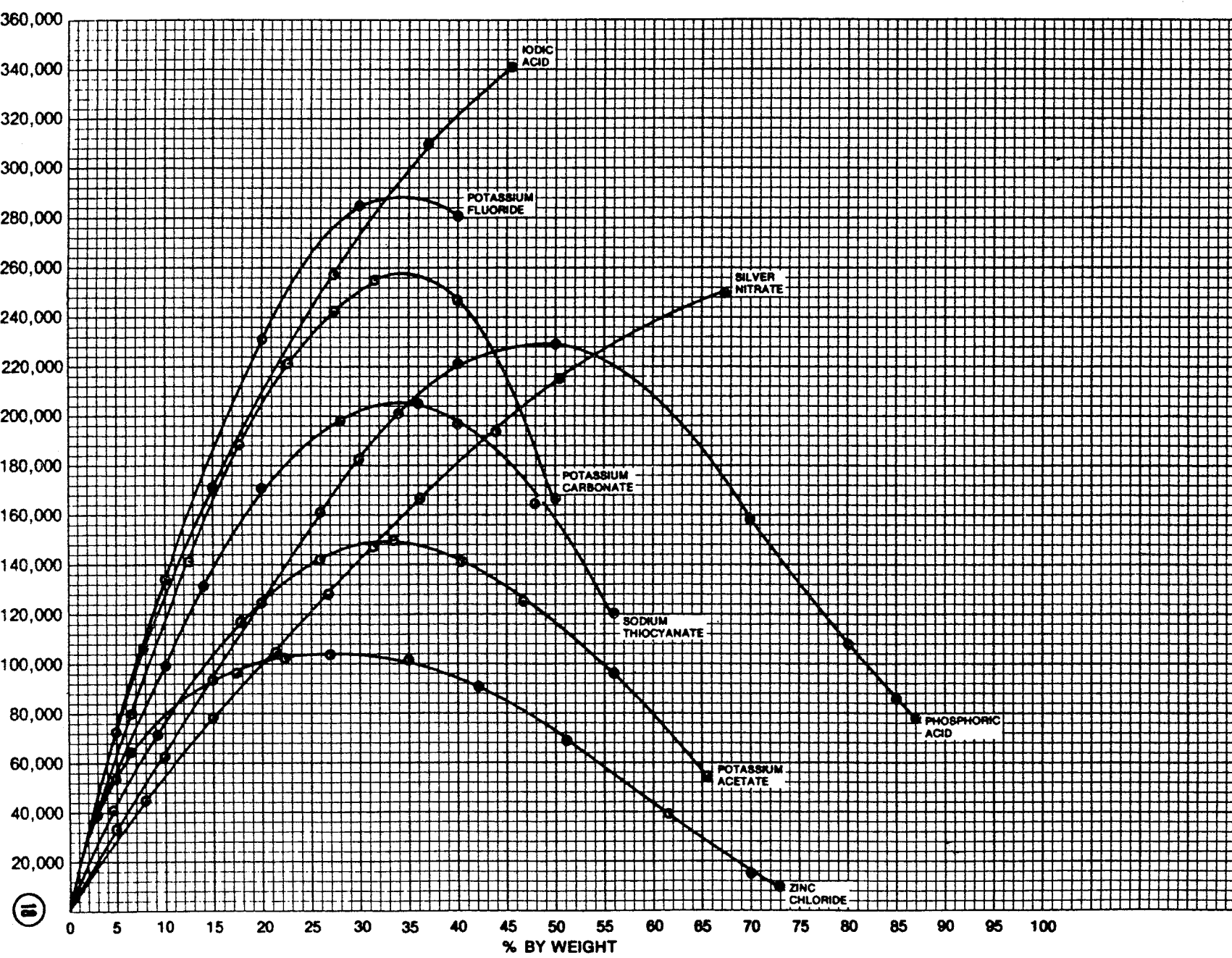


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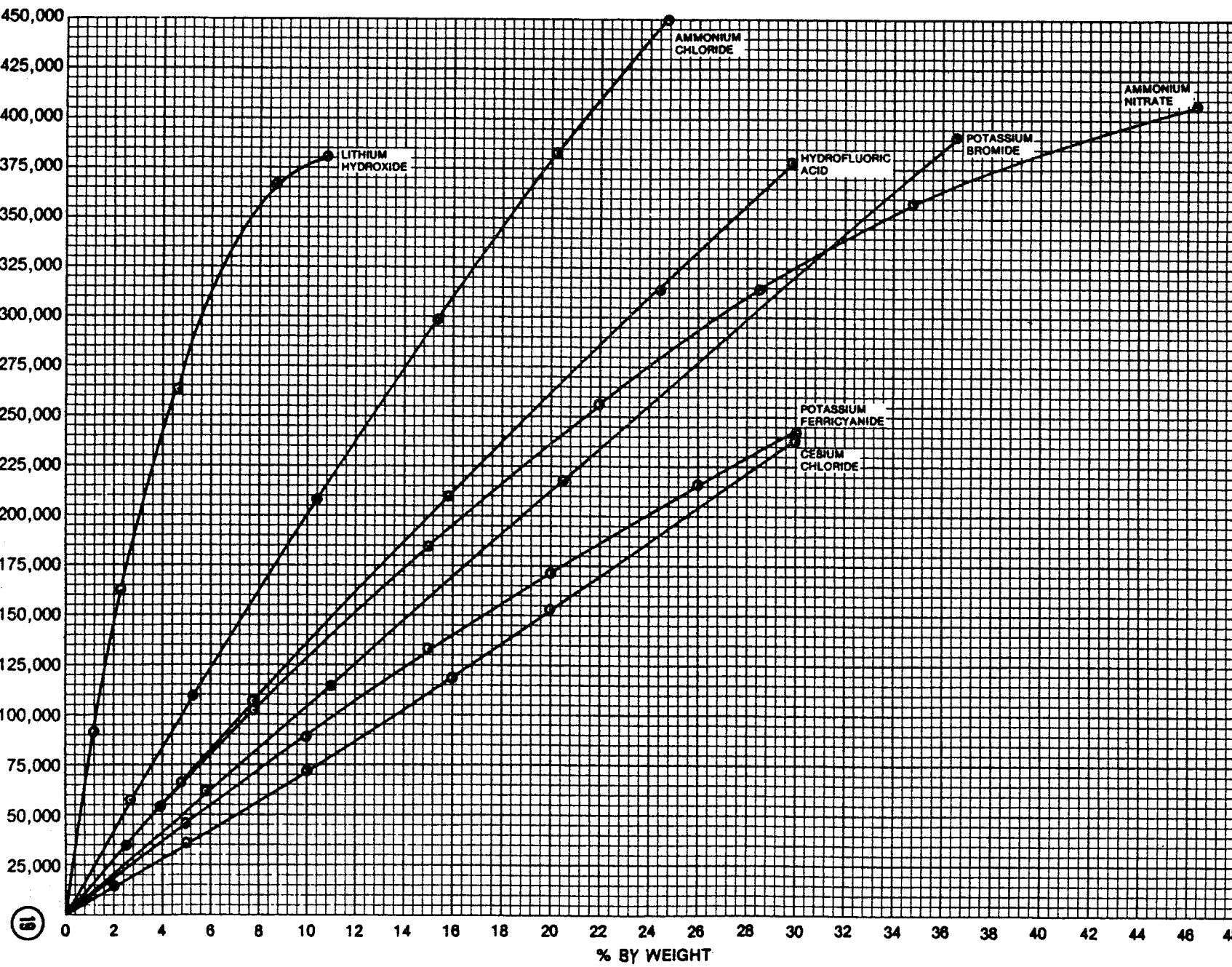


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MICROMHOS AT 25°C



MICROMHOS AT 25°C



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MICROMHOS AT 25°C

