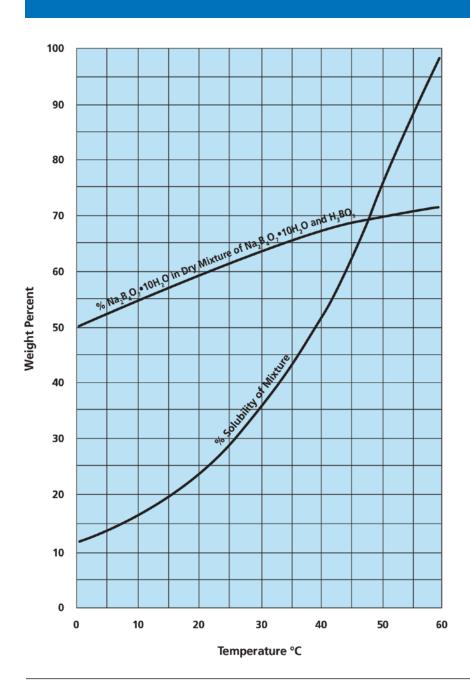
Borax (Borax 10 mol) and boric acid mixtures of maximum solubility



(Based on typical analysis)



Explanation

Example: To determine the solubility and composition of a mixture of Borax 10 mol and boric acid at 30°C. Proceed along the horizontal ordinate to 30°C. Read upward to the lower line labeled Percent Solubility of Mixture, and then across to where the vertical ordinate reads 36% by weight is given as the maximum solubility. To determine the ratio of the two components at this temperature and at this solubility, proceed along the horizontal ordinate to the 30° temperature as above and read upward to the top line which gives the composition of the mixture and then across where it can be read that this mixture contains 62.5% Borax 10 mol and 37.5% boric acid.

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Composition of Borax (Borax 10 mol) and boric acid solid mixtures



(Based on typical analysis of technical grade products)

Wt. %		Mole Ratios		
Borax	Boric Acid	Na ₂ 0/B ₂ 0 ₃	B ₂ O ₃ /Na ₂ O	Wt. % B ₂ O ₃
100	0	0.5000	2.0000	36.515
95	5	0.4625	2.1623	37.504
90	10	0.4269	2.3427	38.494
85	15	0.3931	2.5442	39.483
80	20	0.3609	2.7710	40.472
75.52	24.48	0.3333	3.0000	41.359
75	25	0.3302	3.0280	41.462
70	30	0.3010	3.3217	42.451
66.66	33.34	0.2823	3.5425	43.112
65	35	0.2732	3.6607	43.440
60.66	39.34	0.2500	4.0000	44.299
60	40	0.2465	4.0561	44.430
55	45	0.2211	4.5233	45.419
50.69	49.31	0.2000	5.0000	46.272
50	50	0.1967	5.0841	46.409
46	54	0.1779	56.204	47.200
45	55	0.1733	5.7694	47.398
43.54	56.46	0.1667	6.0000	47.687
40	60	0.1509	6.6261	48.387
35	65	0.1294	7.7276	49.377
33.34	66.66	0.1225	8.1663	49.705
30	70	0.1087	9.1962	50.366
25	75	0.08887	11.252	51.355
20	80	0.06975	14.336	52.345
15	85	0.05135	19.476	53.334
10	90	0.03361	29.757	54.323
5	95	0.01665	60.598	55.313
0	100	0.00000	infinity	56.302