COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Trisodium phosphate; Na_3PO_4; [7601-54-9] (2) Sodium hydroxide; NaOH; [1310-73-2] (3) Disodium sulfate; Na_2SO_4; [7757-82-6] (4) Water, H_2O, [7732-18-5]	Schroeder, W.C.; Berk, A.A.; Gabriel, A. *J. Am. Chem. Soc.* 1937, 59, 1783-90.
VARIABLES: Composition and temperature.	**PREPARED BY:** J. Eysseltová

EXPERIMENTAL VALUES:

Composition of saturated solutions in the Na_2SO_4-Na_3PO_4-NaOH-H_2O system.

NaOH			Na_3PO_4			Na_2SO_4			H_2O
w[a]	mass%[b]	mol/kg[b]	w[a]	mass%[b]	mol/kg[b]	w[a]	mass%[b]	mol/kg[b]	mass%[b]
				temp. = 150°C					
7.8	5.59	1.95	3.0	2.15	0.18	28.7	20.57	2.02	71.68
7.9	5.55	1.98	6.0	4.22	0.36	28.4	19.96	2.00	70.27
8.0	5.53	2.00	8.6	5.94	0.52	28.1	19.42	1.98	69.11
7.6	5.07	1.90	14.7	9.80	0.90	27.7	18.45	1.95	66.67
19.1	13.84	4.78	2.9	2.10	0.18	16.0	11.59	1.13	72.46
19.8	13.98	4.95	5.9	4.17	0.36	15.9	11.29	1.12	70.62
19.5	13.53	4.88	8.7	6.04	0.53	15.9	11.03	1.12	69.40
19.8	13.39	4.95	12.2	8.25	0.74	15.9	10.75	1.12	67.61
				temp. = 250°C					
8.1	5.50	2.02	1.5	1.02	0.09	37.7	25.59	2.65	67.89
8.0	5.33	2.00	3.0	2.00	0.18	39.1	26.05	2.75	66.62
8.1	5.36	2.02	3.7	2.45	0.22	39.3	26.01	2.77	66.18
7.9	5.22	1.98	3.8	2.51	0.23	39.5	26.12	2.78	66.14
8.1	5.35	2.02	3.8	2.51	0.23	39.4	26.04	2.77	66.09
8.2	5.60	2.05	4.0	2.73	0.24	34.1	23.31	2.40	68.35
8.4	6.14	2.10	3.5	2.56	0.21	25.0	18.26	1.76	73.05
8.4	6.47	2.10	3.4	2.62	0.21	18.0	13.87	1.27	77.04
8.4	6.84	2.10	3.3	2.69	0.20	11.0	8.96	0.77	81.50

(continued next page)

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

A high temperature bomb was used. The samples were withdrawn at the operating temperature. The time allowed for equilibration is not given. Phosphate determinations were made colorimetrically using aminonaphtholsulfonic acid (1). Hydroxide content was determined by titration to the methyl red end point (2 equivalents/mol of phosphate present were deducted). Sulfate was determined gravimetrically as $BaSO_4$.

SOURCE AND PURITY OF MATERIALS:

Merck chemically pure $Na_3PO_4 \cdot 12H_2O$ was used. The actual phosphate content of this material was determined by analysis but the results are not reported. If necessary, the dodecahydrate was dried at 120°C to give approximately the monohydrate, or it was recrystallized at 250°C to give the anhydrous salt. No other information is given.

ESTIMATED ERROR:

The error in the phosphate determination is less than 1%. No other details are given.

REFERENCES:

1. Fiske, C.H.; Subbarow, J.T. *J. Biol. Chem.* 1925, *66*, 375.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Trisodium phosphate; Na_3PO_4; [7601-54-9]	Schroeder, W.C.; Berk, A.A.; Gabriel, A.
(2) Sodium hydroxide, NaOH; [1310-73-2]	*J. Am. Chem. Soc.* 1937, 59, 1783-90.
(3) Disodium sulfate; Na_2SO_4, [7757-82-6]	
(4) Water, H_2O; [7732-18-5]	

EXPERIMENTAL VALUES cont'd:

Composition of saturated solutions in the Na_2SO_4-Na_3PO_4-NaOH-H_2O system.

NaOH			Na_3PO_4			Na_2SO_4			H_2O
w[a]	mass%[b]	mol/kg[b]	w[a]	mass%[b]	mol/kg[b]	w[a]	mass%[b]	mol/kg[b]	mass%[b]
				temp. = 250°C					
8.3	7.31	2.08	2.7	2.38	0.16	2.6	2.29	0.18	88.03
8.4	7.40	2.10	4.9	4.32	0.30	0.2	0.18	0.01	88.10
20.0	12.86	5.00	2.7	1.74	0.16	32.8	21.09	2.31	64.31
19.8	12.74	4.95	2.8	1.80	0.17	32.8	21.11	2.31	64.35
20.0	12.93	5.00	2.9	1.87	0.18	31.8[c]	20.56	2.24	64.64
20.6	13.79	5.15	2.7	1.81	0.16	26.1[c]	17.47	1.84	66.93
20.5	14.52	5.12	2.7	1.91	0.16	18.0	12.75	1.27	70.82
20.7	15.40	5.17	2.7	2.01	0.16	11.0[c]	8.17	0.78	74.40
20.6	15.98	5.15	2.7	2.09	0.16	5.6[c]	4.34	0.39	77.58
				temp. = 350°C					
8.0	6.17	2.00	0.6	0.46	0.04	21.0[c]	16.20	1.48	77.16
8.0	6.17	2.00	0.6	0.46	0.04	21.0[c]	16.20	1.48	77.16
8.0	6.23	2.00	0.4	0.31	0.02	20.0[c]	15.58	1.41	77.88
8.0	6.55	2.00	0.4	0.33	0.02	13.8[c]	11.29	0.97	81.83
8.0	7.02	2.00	0.3	0.26	0.02	5.7[c]	5.00	0.40	87.72
8.4	7.46	2.10	0.3	0.27	0.02	3.9[c]	3.46	0.27	88.81
8.0	7.26	2.00	0.3	0.27	0.02	1.9[c]	1.72	0.13	90.74
21.0	11.85	5.25	1.9	1.07	0.12	54.3[c]	30.64	3.82	56.43
21.0	11.73	5.25	2.6	1.45	0.16	55.4[c]	30.95	3.90	55.86
21.0	11.71	5.25	2.7	1.50	0.16	56.6[c]	31.01	3.91	55.77
21.0	11.84	5.25	3.1	1.75	0.19	53.3[c]	30.04	3.75	56.37
21.3	12.52	5.33	2.2	1.29	0.13	46.6[c]	27.40	3.28	58.79
21.0	13.60	5.25	1.8	1.16	0.11	31.6[c]	20.47	2.22	64.77
21.0	14.72	5.25	1.4	0.98	0.08	20.3[c]	14.22	1.43	70.08
21.0	15.61	5.25	1.2	0.89	0.07	12.3[c]	9.14	0.86	74.35
21.0	16.63	5.25	1.0	0.79	0.06	4.3[c]	3.40	0.30	79.18
21.0	17.06	5.25	1.4	1.14	0.08	0.7	0.57	0.05	81.23

[a] This concentration is expressed as g/100g H_2O.

[b] These values were calculated by the compiler.

[c] These values were calculated by the authors from the initial concentrations.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Trisodium phosphate; Na_3PO_4; [7601-54-9] (2) Disodium carbonate; Na_2CO_3; [497-19-8] (3) Sodium hydroxide; NaOH; [1310-73-2] (4) Water; H_2O, [7732-18-5]	Kobe, K.A.; Leipper, A. *Ind. Eng. Chem.* 1940, *32*, 198-203.
VARIABLES: Temperature, ratio of Na_3PO_4/Na_2CO_3 at a fixed ratio of $Na_3PO_4/NaOH$ = 7/1.	**PREPARED BY:** J. Eysseltová

EXPERIMENTAL VALUES:

Composition of saturated solutions in the[a] $Na_3PO_4 \cdot 1/7NaOH-Na_2CO_3-H_2O$ system.

	concn of $Na_3PO_4 \cdot 1/7NaOH$			concn of Na_2CO_3			solid phase[d]
t/°C	g/kg[b]	mass %[c]	mol/kg[c]	g/kg[b]	mass %[c]	mol/kg[c]	
-2.48	1.8	1.68	0.10	5.5	5.12	0.52	A + B
-2.10	0.0	0.0	0.0	6.1	5.75	0.58	B
-1.21	4.2	4.03	0.27	0.0	0.0	0.0	A
0	4.58	4.38	0.27	0.00	0.00	0.00	A
	2.58	2.37	0.15	6.43	5.90	0.61	A + B
	0.00	0.00	0.00	6.93	6.48	6.65	B
25	11.9	10.63	0.70	0.00	0.00	0.00	A
	10.7	9.36	0.63	3.60	3.15	0.34	"
	9.30	8.00	0.55	6.96	5.99	0.66	"
	8.05	6.65	0.47	13.0	10.74	1.23	"
	7.01	5.54	0.41	19.4	15.35	1.83	"
	5.79	4.33	0.34	28.0	20.93	2.64	A + B
	3.44	2.61	0.20	28.5	21.60	2.69	B
	0.00	0.00	0.00	29.4	22.72	2.77	"
40	20.8	17.22	1.22	0.00	0.00	0.00	A
	15.1	11.60	0.89	15.1	11.60	1.42	"
	11.6	7.91	0.68	35.0	23.87	3.30	"
	11.1	7.20	0.65	43.1	27.95	4.07	A + C
	0.0	0.0	0.0	49.2	32.98	4.64	C

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AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

The isothermal method was used. Samples were withdrawn through a coarse filter paper into a weighed 10 ml pipet, weighed, diluted and analyzed acidimetrically (1). The cryohydric points of the system were found by adding the solid salts to ice and measuring the temperature with a Beckmann thermometer. When a constant minimum value was reached, samples were withdrawn and analyzed.

SOURCE AND PURITY OF MATERIALS:

Baker's sodium phosphate was used. Analysis showed it had a constant composition of $Na_3PO_4 \cdot 1/7NaOH$. The Na_2CO_3 was Baker's anhydrous. For determinations at 0° and 25°C the decahydrate was prepared.

ESTIMATED ERROR:

The temperature regulation was: 0 ± 0.05°C; 25 ± 0.05°C; 40 ± 0.1°C; 60 ± 0.1°C; 80 ± 0.3°C; 100 ± 0.3°C. No other details are given.

REFERENCES:

1. Smith, J.H. *J. Soc. Chem. Ind.* 1917, *36*, 415.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Trisodium phosphate; Na_3PO_4; [7601-54-9]	Kobe, K.A., Leipper, A.
(2) Disodium carbonate; Na_2CO_3; [497-19-8]	*Ind. Eng. Chem.* 1940, *32*, 198-203.
(3) Sodium hydroxide; NaOH, [1310-73-2]	
(4) Water, H_2O, [7732-18-5]	

EXPERIMENTAL VALUES cont'd.

Composition of saturated solutions in the $Na_3PO_4 \cdot 1/7NaOH$-Na_2CO_3-H_2O system.[a]

	concn of $Na_3PO_4 \cdot 1/7NaOH$			concn of Na_2CO_3			
t/°C	g/kg[b]	mass %[c]	mol/kg[c]	g/kg[b]	mass %[c]	mol/kg[c]	solid phase[d]
60	41.8	29.48	2.46	0.0	0.0	0.0	A
	36.6	24.78	2.15	11.1	7.52	1.05	"
	31.0	20.06	1.82	23.5	15.21	2.22	"
	28.0	17.59	1.65	31.2	19.60	2.94	A + C
	11.4	7.53	0.67	40.0	26.42	3.77	C
	0.0	0.0	0.0	46.3	31.65	4.37	"
80	63.8	38.95	3.76	0.0	0.0	0.0	A
	52.3	30.35	3.08	20.0	11.61	1.89	A + C
	0.0	0.0	0.0	45.1	31.08	4.25	C
100	90.0	47.36	5.30	0.0	0.0	0.0	A
	88.0	44.24	5.18	10.9	5.48	1.03	A + C
	67.1	36.37	3.95	17.4	9.43	1.64	C
	62.1	34.35	3.66	18.7	10.34	1.76	"
	39.0	23.40	2.30	27.7	16.62	2.61	"
	23.0	14.54	1.35	35.2	22.25	3.32	"
	0.0	0.0	0.0	44.8	30.94	4.23	"

[a] For more information on the phosphate component see the Critical Evaluation.

[b] This is an obvious error. According to the compiler it should be g/100 g H_2O.

[c] These values were calculated by the compiler on the assumption given in footnote *b*.

[d] The solid phases are: A = Na_3PO_4 (the NaOH and H_2O content are not specified); B = $Na_2CO_3 \cdot 10H_2O$, C = $Na_2CO_3 \cdot H_2O$.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Trisodium phosphate; Na_3PO_4, [7601-54-9] (2) Sodium aluminate; $NaAlO_2$; [1302-42-7] (3) Sodium vanadate; $NaVO_3$; [13718-23-8] (4) Sodium hydroxide; NaOH; [1310-73-2] (5) Water; H_2O; [7732-18-5]	Abduragimova, R.A.; Rza-Zade, P.F.; Abduragimov, A.A. *Dokl. Akad. Nauk Azerb. SSR* 1971, 27, 41-5.
VARIABLES:	**PREPARED BY:**
Composition at 25°C and one ratio of $NaAlO_2/NaOH$ = 1.	J. Eysseltová

EXPERIMENTAL VALUES:

Composition of saturated solutions in the $(NaAlO_2 + NaOH)$-$NaVO_3$-Na_3PO_4-H_2O system at 25°C.

$NaAlO_2$ + NaOH		$NaVO_3$		Na_3PO_4		H_2O	
mass%	mol/kg[b]	mass%	mol/kg[b]	mass%	mol/kg[b]	mass%[b]	solid phase[a]
----	----	17.42	1.73	----	----	82.58	A
----	----	----	----	12.30	0.85	87.70	B
----	----	12.05	1.19	5.21	0.38	82.74	B + C
----	----	17.00	1.72	1.92	0.14	81.08	A + C
32.64	4.09	1.99	0.25	----	----	65.37	A + D
29.60	3.45	----	----	0.66	0.06	69.74	B + E
42.17	6.00	0.22	0.03	----	----	57.61	D
40.77	5.69	0.49	0.07	----	----	58.74	"
46.48	7.16	----	----	0.26	0.03	53.26	D + E
42.11	6.00	----	----	0.36	0.04	57.53	"
40.09	5.54	0.29	0.04	0.26	0.03	59.36	"
34.27	4.32	0.44	0.06	0.18	0.02	65.11	"
30.13	3.58	0.59	0.07	0.21	0.02	69.07	"
----	----	12.49	1.23	4.35	0.32	83.16	C
----	----	16.01	1.59	1.31	0.10	82.68	"
----	----	1.00	0.09	9.03	0.61	89.97	B
----	----	4.43	0.40	5.41	0.36	90.16	"
----	----	10.82	1.05	4.40	0.32	84.78	"
1.98	0.20	13.61	1.35	1.49	0.11	82.92	A + C + F
21.36	2.27	1.18	0.12	0.19	0.01	77.27	A + F
15.44	1.55	2.40	0.24	0.26	0.02	81.90	"

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AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
The isothermal method was used with metallic vessels having mechanical stirrers. The time for equilibration was 155 hours. Saturated solutions were sampled by filtration and analyzed for Na_2O, Al_2O_3, V_2O_5 and P_2O_5 by volumetric, gravimetric, photocolorimetric and nephelometric methods. The composition of the solid phase was determined by Schreinemakers' method.	No information is given.
	ESTIMATED ERROR: Nothing is stated.
	REFERENCES:

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Trisodium phosphate; Na_3PO_4; [7601-54-9] (2) Sodium aluminate; $NaAlO_2$; [1302-42-7] (3) Sodium vanadate; $NaVO_3$; [13718-23-8] (4) Sodium hydroxide; NaOH; [1310-73-2] (5) Water; H_2O; [7732-18-5]	Abduragimova, R.A.; Rza-Zade, P.F.; Abduragimov, A.A. *Dokl. Akad. Nauk Azerb. SSR* 1971, 27, 41-5.

EXPERIMENTAL VALUES cont'd:

Composition of saturated solutions in the $(NaAlO_2 + NaOH)$-$NaVO_3$-Na_3PO_4-H_2O system at 25°C.

$NaAlO_2$ + NaOH		$NaVO_3$		Na_3PO_4		H_2O	
mass%	mol/kg[b]	mass%	mol/kg[b]	mass%	mol/kg[b]	mass%[b]	solid phase[a]
0.84	0.08	9.20	0.88	4.16	0.29	85.80	B + F
0.29	0.02	0.19	0.02	7.34	0.48	92.18	"
23.18	2.51	0.83	0.09	0.27	0.02	75.72	E + F + B
19.93	2.06	0.61	0.06	0.22	0.02	79.24	B + F
13.04	1.24	0.14	0.01	0.41	0.03	86.41	"
1.81	0.17	10.61	1.01	1.09	0.08	86.49	C + F
1.01	0.09	8.25	0.77	2.60	0.18	88.14	"
0.93	0.09	7.00	0.65	4.09	0.28	87.98	B + C
0.63	0.06	1.51	0.09	5.49	0.36	92.37	"

[a] The solid phases are: A = $NaVO_3 \cdot 2H_2O$; B = $Na_3PO_4 \cdot 12H_2O$; C = $4Na_2O \cdot P_2O_5 \cdot V_2O_5 \cdot 30H_2O$; D = $Al_2O_3 \cdot 2Na_2O \cdot 10H_2O$; E = $Al_2O_3 \cdot 2.5Na_2O \cdot 14H_2O$; F = $3Al_2O_3 \cdot 4Na_2O \cdot P_2O_5 \cdot 15H_2O$.

[b] These values were calculated by the compiler.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Trisodium phosphate; Na_3PO_4; [7601-54-9] (2) Sodium aluminate; $NaAlO_2$; [1302-42-7] (3) Sodium hydroxide; NaOH; [1310-73-2] (4) Disodium sulfate; Na_2SO_4; [7757-82-6] (5) Water; H_2O; [7732-18-5]	Abduragimova, R.A.; Rza-Zade, P.F.; Abduragimov, A.A. *Dokl. Akad. Nauk Azerb. SSR* 1971, 27, 41-5.
VARIABLES: Composition at 25°C and one ratio of $NaAlO_2/NaOH$ = 1.	**PREPARED BY:** J. Eysseltová

EXPERIMENTAL VALUES:

Composition of saturated solutions in the $NaAlO_2$-NaOH-Na_2SO_4-Na_3PO_4-H_2O system at 25°C.

$NaAlO_2$ + NaOH		Na_2SO_4		Na_3PO_4		H_2O	solid[a]
mass%	mol/kg[b]	mass%	mol/kg[b]	mass%	mol/kg[b]	mass%[b]	phase
----	----	21.90	1.97	----	----	78.10	A
----	----	----	----	12.30	0.85	87.70	B
21.15	2.43	7.46	0.74	----	----	71.39	A + C
----	----	20.75	1.89	2.10	0.16	77.15	B + D
50.13	8.29	0.29	0.04	----	----	49.58	C
47.72	7.54	0.39	0.05	----	----	51.89	"
46.48	7.15	----	----	0.25	0.03	53.27	E
42.11	6.00	----	----	0.36	0.04	57.53	"
----	----	19.41	1.73	1.78	0.14	78.81	B
----	----	16.01	1.37	1.79	0.13	82.20	"
----	----	8.29	0.67	4.42	0.31	87.29	"
----	----	1.51	0.12	11.22	0.78	87.27	"
1.85	0.18	12.34	1.02	0.81	0.06	85.00	A + B + F
32.16	3.96	0.92	0.10	0.38	0.03	66.54	C + E + F
0.74	0.07	0.39	0.03	7.86	0.52	91.01	B + F
28.34	3.33	1.65	0.17	0.28	0.02	69.73	A + C + F
26.23	2.98	1.28	0.12	0.30	0.02	72.19	B + E + F
46.00	7.08	0.44	0.06	0.26	0.03	53.30	E + C
42.62	6.20	0.63	0.08	0.43	0.05	56.32	"
37.92	5.14	1.01	0.12	0.55	0.06	60.52	"

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AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
The isothermal method was used with metallic vessels having a mechanical stirrer. The time for equilibration was 155 hours. Saturated solutions were sampled by filtration and analyzed for Na_2O, Al_2O_3, and P_2O_5 by volumetric, gravimetric, photocolorimetric and nephelometric methods. The composition of the solid phases was determined by Schreinemakers' method.	No details are given.
	ESTIMATED ERROR: No information is given.
	REFERENCES:

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Trisodium phosphate; Na_3PO_4; [7601-54-9]	Abduragimova, R.A.; Rza-Zade, P.F.; Abduragimov, A.A.
(2) Sodium aluminate; $NaAlO_2$; [1302-42-7]	*Dokl. Akad. Nauk Azerb. SSR* 1971, 27, 41-5.
(3) Sodium hydroxide; NaOH; [1310-73-2]	
(4) Disodium sulfate; Na_2SO_4; [7757-82-6]	
(5) Water, H_2O; [7732-18-5]	

EXPERIMENTAL VALUES cont'd:

Composition of saturated solutions in the $NaAlO_2$-NaOH-Na_2SO_4-Na_3PO_4-H_2O system at 25°C.

$NaAlO_2$ + NaOH		Na_2SO_4		Na_3PO_4		H_2O	
mass%	mol/kg[b]	mass%	mol/kg[b]	mass%	mol/kg[b]	mass%[b]	solid phase[a]
30.23	3.64	1.31	0.14	0.46	0.04	68.00	E + C
28.42	3.35	1.61	0.16	0.39	0.03	69.58	"
28.00	3.27	1.45	0.14	0.28	0.02	70.27	A + F
22.94	2.54	2.81	0.27	0.29	0.02	73.96	"
26.07	2.97	1.36	0.13	0.54	0.04	72.03	B + E + F
26.10	2.95	1.21	0.12	0.19	0.02	72.50	"
22.00	2.38	1.61	0.15	0.64	0.05	75.75	B + F
18.06	1.84	1.09	0.10	0.58	0.04	80.27	"
2.42	0.20	0.01	0.00	0.81	0.05	96.76	"
0.65	0.06	2.46	0.18	2.06	0.13	94.83	"

[a] The solid phases are: A = $Na_2SO_4 \cdot 10H_2O$; B = $Na_3PO_4 \cdot 12H_2O$; C = $Al_2O_3 \cdot 3Na_2O \cdot 7.5H_2O$; D = $Al_2(SO_4)_3 \cdot 10H_2O$; E = $Al_2O_3 \cdot 2.5Na_2O \cdot 14H_2O$; F = $3Al_2O_3 \cdot 4Na_2O \cdot P_2O_5 \cdot 15H_2O$. It should be noted that the "solid phase" column in the source paper contains a great number of typographic errors.

[b] The mol/kg H_2O values were calculated by the compiler.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Trisodium phosphate; Na_3PO_4; [7601-54-9] (2) Sodium vanadate; $NaVO_3$; [13718-23-8] (3) Disodium sulfate; Na_2SO_4; [7757-82-6] (4) Water; H_2O, [7732-18-5]	Abduragimova, R.A.; Rza-Zade, P.F. *Issled. Obl. Neorg. Fiz. Khim.* 1971, 191-5.
VARIABLES: Composition at 25°C.	**PREPARED BY:** J. Eysseltová

EXPERIMENTAL VALUES:

Composition of saturated solutions in the Na_3PO_4-$NaVO_3$-Na_2SO_4-H_2O system at 25°C.

Na_3PO_4		$NaVO_3$		Na_2SO_4		solid[c]
mass%[a]	mol/kg[b]	mass%[a]	mol/kg[b]	mass%[a]	mol/kg[b]	phase
12.30	0.85	----	----	----	----	A
----	----	17.40	1.73	----	----	B
----	----	----	----	21.90	1.97	C
0.92	0.07	14.40	1.41	0.88	0.07	B + D
1.98	0.15	11.80	1.17	3.70	0.32	"
2.6	0.19	9.80	0.99	6.15	0.53	"
2.20	0.16	6.42	0.64	8.82	0.75	B + D + E
1.60	0.12	3.65	0.36	12.60	1.08	B + E
1.06	0.08	1.98	0.20	15.09	1.30	"
0.95	0.07	1.52	0.16	18.39	1.64	"
0.83	0.06	1.31	0.14	20.42	1.86	B + C + E
5.21	0.39	12.65	1.26	----	----	A + E
4.35	0.31	8.20	0.78	1.20	0.10	A + D
4.02	0.28	6.42	0.60	2.60	0.21	"
3.45	0.24	4.25	0.39	3.45	0.27	"
3.01	0.20	2.68	0.24	3.13	0.24	"
2.43	0.17	1.46	0.14	8.80	0.71	A + D + E
2.03	0.14	0.87	0.08	9.60	0.77	A + E
1.79	0.12	0.80	0.08	10.40	0.84	"
1.62	0.12	0.63	0.06	13.15	1.09	"
1.59	0.12	0.45	0.04	15.80	1.35	"
1.12	0.09	0.21	0.02	20.60	1.86	A + C + E

(continued next page)

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
The method of the third component was used. Equilibrium was checked by analysis. The alkali metal content was determined by using 0.5 mol dm^{-3} HCl. Sulfate was determined gravimetrically as $BaSO_4$. P and V were determined photocolorimetrically.	All the salts were of chemically pure grade and were recrystallized before being used.
	ESTIMATED ERROR: No information is given.
	REFERENCES:

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Trisodium phosphate; Na_3PO_4; [7601-54-9]	Abduragimova, R.A.; Rza-Zade, P.F.
(2) Sodium vanadate; $NaVO_3$; [13718-23-8]	*Issled. Obl. Neorg. Fiz. Khim.* 1971, 191-5.
(3) Disodium sulfate; Na_2SO_4; [7757-82-6]	
(4) Water; H_2O; [7732-18-5]	

EXPERIMENTAL VALUES Cont'd:

Composition of saturated solutions in the Na_3PO_4-$NaVO_3$-Na_2SO_4-H_2O system at 25°C.

Na_3PO_4		$NaVO_3$		Na_2SO_4		
mass%[a]	mol/kg[b]	mass%[a]	mol/kg[b]	mass%[a]	mol/kg[b]	solid phase[c]
1.25	0.09	16.82	1.68	----	----	B + D
2.18	0.16	5.12	0.50	8.16	0.68	D + E
1.87	0.13	3.81	0.36	6.82	0.55	"
1.63	0.11	3.16	0.29	6.23	0.49	"
----	----	1.58	0.17	20.80	1.89	B + C
2.10	0.16	----	----	20.78	1.90	A + C
1.40	0.09	4.01	0.36	2.29	0.17	B
1.80	0.13	11.98	1.19	3.89	0.33	"
2.03	0.15	10.18	1.02	5.76	0.49	"
2.97	0.23	9.73	1.01	8.03	0.71	"
1.93	0.14	7.22	0.72	8.65	0.74	"
1.73	0.13	5.67	0.58	12.63	1.11	"
1.40	0.11	3.40	0.35	16.12	1.44	D
1.98	0.14	13.94	1.38	1.33	0.11	"
2.93	0.22	12.88	1.28	1.74	0.15	"
3.55	0.25	8.65	0.83	2.45	0.20	"
3.82	0.27	8.13	0.78	2.03	0.17	"
3.09	0.22	7.33	0.69	2.78	0.22	"
2.13	0.15	6.12	0.59	6.83	0.57	"
2.67	0.19	4.68	0.45	6.91	0.58	"
1.2	0.08	4.13	0.39	8.2	0.67	E
1.94	0.14	3.92	0.37	7.99	0.65	"
2.06	0.15	3.11	0.30	9.01	0.74	"
2.09	0.15	2.89	0.28	10.14	0.84	"
1.92	0.16	2.43	0.27	12.38	0.94	"
1.88	0.14	1.63	0.17	16.47	1.45	"
1.21	0.09	1.13	0.12	18.32	1.62	"
2.63	0.17	2.48	0.22	1.34	0.10	A
3.36	0.22	2.13	0.19	1.43	0.11	"
4.48	0.30	1.77	0.16	1.60	0.12	"
2.88	0.19	1.18	0.10	1.80	0.14	"
4.69	0.31	0.96	0.08	2.05	0.16	"
5.13	0.34	0.76	0.07	2.28	0.17	"
5.49	0.37	0.63	0.06	2.90	0.22	"
6.35	0.43	0.43	0.04	3.19	0.25	"
8.42	0.58	0.21	0.02	3.28	0.26	"
9.80	0.69	0.22	0.02	3.32	0.27	"

[a] The compiler supposes this column to have this meaning. In the source paper nothing is specified.

[b] These values were calculated by the compiler on the assumption stated in footnote *a*.

[c] The solid phases are: A = $Na_3PO_4 \cdot 12H_2O$; B = $NaVO_3 \cdot 2H_2O$; C = $Na_2SO_4 \cdot 10H_2O$; D = $4Na_2O \cdot P_2O_5 \cdot V_2O_5 \cdot 30H_2O$; E = $4Na_2O \cdot P_2O_5 \cdot V_2O_5 \cdot 18H_2O$.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Trisodium phosphate; Na_3PO_4; [7601-54-9] (2) Disodium silicate; Na_2SiO_3; [6834-92-0] (3) Dipotassium silicate, K_2SiO_3; [10006-28-7] (4) Tripotassium phosphate; K_3PO_4; [7778-53-2 (5) Water; H_2O; [7732-18-5]	Manvelyan, M.G.; Galstyan, V.D.; Sayamyan, E.A.; Gyunashyan, A.P.; Oganesyan, E.B. *Arm. Khim. Zh.* 1973, *26*, 632-7.
VARIABLES: Composition at 20°C.	**PREPARED BY:** J. Eysseltová

EXPERIMENTAL VALUES:

Jänecke coordinates of the solutions coexisting with two or more solid phases in the system: Na^+, $K^+ \| SiO_3^{2-}$, PO_4^{3-} $-H_2O$ at 20°C.

filtrate				solid phases [a]
Na^+	K^+	SiO_3^{2-}	PO_4^{3-}	
100.0		75.45	24.55	A + F
100.0		89.57	10.43	B + F
74.25	25.75	93.56	6.44	B + C + F
62.28	37.72	73.30	27.70	A + C + F
36.46	63.54	22.38	77.62	A + C + E
15.00	85.00	40.20	59.20	C + D + E
41.40	58.60	-	100.0	A + E
13.08	86.92	-	100.0	D + E
93.80	6.05	95.02	4.82	A + B
89.42	10.50	95.42	4.59	A + B
37.88	62.12	31.08	68.90	A + C
6.55	93.45	55.00	45.00	D

[a] The solid phases are: A = $Na_3PO_4 \cdot 12H_2O$; B = $Na_2SiO_3 \cdot 9H_2O$; C = $Na_3PO_4 \cdot 8H_2O$; D = $K_3PO_4 \cdot 7H_2O$; E = solid solutions formed by A and D; F = simultaneous crystallization of A and B.

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
The only information given is that the method of invariant points was used.	No information is given.
	ESTIMATED ERROR: No information is given.
	REFERENCES: