

<b>COMPONENTS:</b> (1) Potassium dihydrogenphosphate; $\text{KH}_2\text{PO}_4$ ; [7778-77-0] (2) Formamide; $\text{CH}_3\text{NO}$ ; [75-12-7] (3) Water; $\text{H}_2\text{O}$ ; [7732-18-5]	<b>ORIGINAL MEASUREMENTS:</b> Becker, B. <i>J. Chem. Eng. Data</i> <u>1969</u> , <i>14</i> , 431-2.																																																																								
<b>VARIABLES:</b> Composition at 25°C.	<b>PREPARED BY:</b> J. Eysseltoová																																																																								
<b>EXPERIMENTAL VALUES:</b> Solubility in the $\text{KH}_2\text{PO}_4$ - $\text{HCONH}_2$ - $\text{H}_2\text{O}$ system at 25°C. <table border="1" data-bbox="425 539 1150 870"> <thead> <tr> <th colspan="3">Initial composition (mass%)</th> <th colspan="3">saturated solution (mass%)</th> </tr> <tr> <th><math>\text{KH}_2\text{PO}_4</math></th> <th><math>\text{HCONH}_2</math></th> <th><math>\text{H}_2\text{O}</math></th> <th><math>\text{KH}_2\text{PO}_4</math></th> <th><math>\text{HCONH}_2</math></th> <th><math>\text{H}_2\text{O}</math></th> </tr> </thead> <tbody> <tr><td>40.7</td><td>7.6</td><td>51.7</td><td>15.2</td><td>10.9</td><td>73.9</td></tr> <tr><td>29.8</td><td>20.3</td><td>49.9</td><td>10.3</td><td>25.6</td><td>64.1</td></tr> <tr><td>32.9</td><td>33.6</td><td>33.5</td><td>5.8</td><td>46.5</td><td>44.7</td></tr> <tr><td>28.6</td><td>43.0</td><td>28.4</td><td>3.9</td><td>58.4</td><td>37.7</td></tr> <tr><td>32.2</td><td>49.5</td><td>18.3</td><td>2.7</td><td>71.0</td><td>26.3</td></tr> <tr><td>29.6</td><td>59.7</td><td>10.7</td><td>1.6</td><td>82.7</td><td>15.7</td></tr> <tr><td></td><td></td><td></td><td>1.6</td><td>85.1</td><td>13.3</td></tr> <tr><td>20.0</td><td>74.0</td><td>6.0</td><td>0.9</td><td>91.4</td><td>7.5</td></tr> <tr><td></td><td></td><td></td><td>1.0</td><td>95.1</td><td>3.9</td></tr> <tr><td>40</td><td>60</td><td>0</td><td>1.0</td><td>99.0</td><td>0</td></tr> </tbody> </table> <p>The only solid phase in equilibrium with the above saturated solutions was <math>\text{KH}_2\text{PO}_4</math>.</p>		Initial composition (mass%)			saturated solution (mass%)			$\text{KH}_2\text{PO}_4$	$\text{HCONH}_2$	$\text{H}_2\text{O}$	$\text{KH}_2\text{PO}_4$	$\text{HCONH}_2$	$\text{H}_2\text{O}$	40.7	7.6	51.7	15.2	10.9	73.9	29.8	20.3	49.9	10.3	25.6	64.1	32.9	33.6	33.5	5.8	46.5	44.7	28.6	43.0	28.4	3.9	58.4	37.7	32.2	49.5	18.3	2.7	71.0	26.3	29.6	59.7	10.7	1.6	82.7	15.7				1.6	85.1	13.3	20.0	74.0	6.0	0.9	91.4	7.5				1.0	95.1	3.9	40	60	0	1.0	99.0	0
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<b>AUXILIARY INFORMATION</b>																																																																									
<b>METHOD/APPARATUS/PROCEDURE:</b> Excess salt was added to aqueous formamide, the mixture was shaken vigorously for at least 24 hours and then filtered through a fritted glass filter. The nitrogen content was determined by the Kjeldahl method, potassium was determined by the Perrin method and phosphorus was determined gravimetrically by the quinoline molybdate method.	<b>SOURCE AND PURITY OF MATERIALS:</b> Fresh reagent grade salts were used without further purification. Matheson, Coleman, Bell 99% formamide was used without further purification. It had a m.p. of $2.5 \pm 0.1^\circ\text{C}$ in good agreement with the literature value (1).																																																																								
	<b>ESTIMATED ERROR:</b> No information is given.																																																																								
	<b>REFERENCES:</b> 1. Smith, G.F. <i>J. Chem. Soc.</i> <u>1931</u> , 3527.																																																																								

COMPONENTS:		ORIGINAL MEASUREMENTS:							
(1) Potassium dihydrogenphosphate; $\text{KH}_2\text{PO}_4$ ; [7778-77-0]		Filipescu, L.							
(2) Ethanamine, N,N, diethylphosphate 1:1 (triethylamine phosphate); $\text{C}_6\text{H}_{18}\text{NO}_4\text{P}$ ; [10138-93-9]		Rev Chim. (Bucharest) <u>1971</u> , 22, 533-40.							
(3) Water; $\text{H}_2\text{O}$ ; [7732-18-5]									
VARIABLES:		PREPARED BY:							
Temperature and composition.		J. Eysseltová							
EXPERIMENTAL VALUES:									
Solubility isotherms in the $\text{KH}_2\text{PO}_4 - ((\text{C}_2\text{H}_5)_3\text{N})\text{H}_3\text{PO}_4 - \text{H}_2\text{O}$ system.									
$t/^\circ\text{C}$ .	$g\text{ cm}^{-3}$ <sup>d</sup>	$\text{K}^+$ <sup>a</sup> concn <sup>b</sup>	$(\text{C}_2\text{H}_5)_3\text{N}$ <sup>b</sup> concn <sup>b</sup>	$\text{H}_2\text{O}$ <sup>c</sup> M <sup>c</sup>	$\text{KH}_2\text{PO}_4$ <sup>a</sup> mass%	$\text{KH}_2\text{PO}_4$ <sup>a</sup> mol/kg	$(\text{C}_2\text{H}_5)_3\text{NH}_3\text{PO}_4$ <sup>a</sup> mass%	$(\text{C}_2\text{H}_5)_3\text{NH}_3\text{PO}_4$ <sup>a</sup> mol/kg	solid <sup>d</sup> phase <sup>d</sup>
20	-----	0.1124	0.0417	1201.1	4.49	1.12	7.32	0.41	A
20	-----	0.0765	0.0896	1113.9	2.86	0.76	14.71	0.89	"
20	-----	0.0602	0.1839	758.0	1.95	0.60	26.28	1.83	"
20	1.118	0.0664	0.3391	456.6	1.76	0.66	39.60	3.39	"
20	1.144	0.0798	0.5540	292.1	1.69	0.79	51.57	5.54	"
20	1.205	0.3719	3.4538	48.4	2.00	3.71	85.48	34.53	A + B
40	-----	0.1623	0.0746	781.1	6.02	1.62	12.15	0.74	A
40	-----	0.1045	0.2427	533.3	3.09	1.04	31.58	2.42	"
40	-----	0.1026	0.3534	406.9	2.65	1.02	40.21	3.53	"
40	1.1311	0.1096	0.4039	360.6	2.68	1.09	43.39	4.03	"
40	1.229	0.6778	4.6127	35.0	2.92	6.77	87.54	46.12	A + B
60	1.181	0.2559	0.0762	557.5	9.15	2.55	11.97	0.76	A
60	-----	0.2415	0.0894	559.5	8.50	2.41	13.83	0.89	"
60	1.138	0.1800	0.2251	457.0	5.33	1.80	29.30	2.25	"
60	-----	0.2434	1.1271	135.1	3.29	2.43	66.90	11.27	"
60	-----	0.9418	5.6949	27.9	3.34	9.41	88.82	56.94	A + B
80	1.221	0.3778	0.0963	390.5	12.57	3.77	14.07	0.96	A
80	1.197	0.3361	0.1694	366.3	10.23	3.36	22.64	1.69	"
80	-----	0.2459	0.5914	221.2	4.87	2.45	51.45	5.91	"
<sup>a</sup> These values were calculated by the compiler.									
<sup>b</sup> The concentration unit is: equiv/100 g water.									
<sup>c</sup> The concentration unit is: mol/100 equiv of solute.									
<sup>d</sup> The solid phases are: A = $\text{KH}_2\text{PO}_4$ ; B = $((\text{C}_2\text{H}_5)_3\text{N})\text{H}_3\text{PO}_4$ .									
AUXILIARY INFORMATION									
METHOD/APPARATUS/PROCEDURE:					SOURCE AND PURITY OF MATERIALS:				
The samples were equilibrated isothermally by stirring for 5 hours with a stream of inert gas. The potassium content was determined with a flame photometer, the $(\text{C}_2\text{H}_5)_3\text{NH}^+$ content was determined by the Kjeldahl method.					The $\text{KH}_2\text{PO}_4$ was recrystallized 3 times before use. The triethylamine phosphate was synthesized from phosphoric acid and triethylamine.				
					ESTIMATED ERROR: The temperature was controlled to within $\pm 0.05^\circ\text{C}$ at 20 and $40^\circ\text{C}$ and to within $\pm 0.1^\circ\text{C}$ at 60 and $80^\circ\text{C}$ .				
					REFERENCES:				

<b>COMPONENTS:</b> (1) Potassium dihydrogenphosphate; $\text{KH}_2\text{PO}_4$ ; [7778-77-0] (2) Ammonium dihydrogenphosphate; $\text{NH}_4\text{H}_2\text{PO}_4$ ; [7722-76-1] (3) Urea; $\text{CH}_4\text{N}_2\text{O}$ ; [57-13-6] (4) Water; $\text{H}_2\text{O}$ ; [7732-18-5]		<b>ORIGINAL MEASUREMENTS:</b> Bergman, A.G.; Gladkovskaya, A.A.; Galushkina, R.A. <i>Zh. Neorg. Khim.</i> <u>1973</u> , 18, 1978-80.							
<b>VARIABLES:</b> Temperature and composition.		<b>PREPARED BY:</b> J. Eysseltová							
<b>EXPERIMENTAL VALUES:</b> Four sections through the system were investigated. The sections are: No. 1 (45.81% $\text{NH}_4\text{H}_2\text{PO}_4$ + 54.19% $\text{KH}_2\text{PO}_4$ ) - urea - water No. 2 (71.72% $\text{NH}_4\text{H}_2\text{PO}_4$ + 28.28% $\text{KH}_2\text{PO}_4$ ) - urea - water No. 3 (65.70% $\text{NH}_4\text{H}_2\text{PO}_4$ + 34.30% urea) - $\text{KH}_2\text{PO}_4$ - $\text{H}_2\text{O}$ No. 4 (85.18% $\text{NH}_4\text{H}_2\text{PO}_4$ + 14.82% urea) - $\text{KH}_2\text{PO}_4$ - $\text{H}_2\text{O}$ Solubility data for saturated solutions in the urea- $\text{NH}_4\text{H}_2\text{PO}_4$ - $\text{KH}_2\text{PO}_4$ - $\text{H}_2\text{O}$ system.									
sect no	urea		$\text{NH}_4\text{H}_2\text{PO}_4$		$\text{KH}_2\text{PO}_4$		$\text{H}_2\text{O}$	$t/^\circ\text{C}$	solid phases <sup>b</sup>
	mass%	mol/kg <sup>a</sup>	mass%	mol/kg <sup>a</sup>	mass%	mol/kg <sup>a</sup>	mass%		
1	1.80	0.38	9.34	1.04	11.06	1.04	77.80	+6.4	A + B + C
	1.50	0.30	8.06	0.86	9.54	0.86	80.90	-4.1	A + B + D
	12.60	2.84	6.23	0.73	7.37	0.73	73.8	-8.0	B + C + D
	40.00	13.48	4.86	0.85	5.74	0.85	49.4	+8.0	C + F + G
	32.80	3.41	4.20	0.62	5.00	0.63	58.00	-6.0	C + E + F
	28.40	8.50	8.98	1.40	10.62	1.40	55.60	-18.0	C + D + E
2	1.20	0.28	21.30	2.67	8.40	0.89	69.10	+19.4	A + B + C
	1.40	0.29	14.34	1.58	5.66	0.52	78.60	-5.5	A + B + D
	24.50	6.76	10.90	1.57	4.30	0.52	60.30	-8.8	B + C + E
	32.00	9.68	9.32	1.47	3.68	0.49	55.00	-7.0	C + E + F
	41.00	12.88	8.65	1.41	3.35	0.46	53.00	+9.6	C + F + G
	24.60	6.72	10.40	1.48	4.10	0.49	60.90	-16.00	B + D + E
3	11.73	3.17	22.47	3.17	4.20	0.50	61.60	+26.5	A + B + C
	6.52	1.45	12.48	1.45	6.50	0.64	74.50	-8.0	A + B + D
(continued next page)									
<b>AUXILIARY INFORMATION</b>									
<b>METHOD/APPARATUS/PROCEDURE:</b> A visual polythermic method was used (1). Solid carbon dioxide was used as the cooling agent.					<b>SOURCE AND PURITY OF MATERIALS:</b> Chemically pure salts and bidistilled water were used.				
					<b>ESTIMATED ERROR:</b> No information is given.				
					<b>REFERENCES:</b> 1. Bergman, A.G.; Luzhnaya, N.P. <i>Fiziko-Khimicheskie Osnovy Izucheniya i Ispol'zovaniya Solyanykh Mestorozhdeniy Khlord-sulfatnogo Tipa</i> , Moscow, IAN SSSR, <u>1951</u> .				

COMPONENTS:	ORIGINAL MEASUREMENTS:								
(1) Potassium dihydrogenphosphate; $\text{KH}_2\text{PO}_4$ ; [7778-77-0]	Bergman, A.G.; Gladkovskaya, A.A.; Galushkina, R.A.								
(2) Ammonium dihydrogenphosphate; $\text{NH}_4\text{H}_2\text{PO}_4$ ; [7722-76-1]	Zh. Neorg. Khim. 1973, 18, 1978-80.								
(3) Urea; $\text{CH}_4\text{N}_2\text{O}$ ; [57-13-6]									
(4) Water; $\text{H}_2\text{O}$ ; [7732-18-5]									
EXPERIMENTAL VALUES cont'd:									
Four sections through the system were investigated. The sections are:									
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Solubility data for saturated solutions in the urea- $\text{NH}_4\text{H}_2\text{PO}_4$ - $\text{KH}_2\text{PO}_4$ - $\text{H}_2\text{O}$ system.									
sect	urea		$\text{NH}_4\text{H}_2\text{PO}_4$		$\text{KH}_2\text{PO}_4$		$\text{H}_2\text{O}$		solid phases <sup>b</sup>
no	mass%	mol/kg <sup>a</sup>	mass%	mol/kg <sup>a</sup>	mass%	mol/kg <sup>a</sup>	mass%	t/°C	
4	4.30	10.52	24.70	3.15	3.00	0.32	68.00	+17.0	A + B + C
	2.70	5.22	15.70	1.74	3.50	0.32	78.10	-5.2	A + B + D
<sup>a</sup> The mol/kg $\text{H}_2\text{O}$ values were calculated by the compiler.									
<sup>b</sup> The solid phases are: A = $\alpha\text{-NH}_4\text{H}_2\text{PO}_4$ ; B = $(\alpha\text{-NH}_4, \text{K})\text{H}_2\text{PO}_4$ ; C = $(\beta\text{-NH}_4, \text{K})\text{H}_2\text{PO}_4$ ;									
D = ice; E = $\alpha$ -urea; F = $\beta$ -urea; G = $\gamma$ -urea.									

<b>COMPONENTS:</b> (1) Potassium dihydrogenphosphate; $\text{KH}_2\text{PO}_4$ ; [7778-77-0] (2) Formamide; $\text{CH}_3\text{NO}$ ; [75-12-7] (3) Water; $\text{H}_2\text{O}$ ; [7732-18-5]	<b>ORIGINAL MEASUREMENTS:</b> Beglov, B.M.; Tukhtaev, S.; Yugai, M.R. <i>Zh. Neorg. Khim.</i> <u>1980</u> , <i>25</i> , 2283-5.																																																																	
<b>VARIABLES:</b> Temperature and composition.	<b>PREPARED BY:</b> J. Eysseltová																																																																	
<b>EXPERIMENTAL VALUES:</b> Solutions coexisting with two or three solid phases.  composition (mass%) <table border="1" data-bbox="268 588 1113 930"> <thead> <tr> <th><math>\text{HCONH}_2</math></th> <th><math>\text{KH}_2\text{PO}_4</math></th> <th><math>\text{H}_2\text{O}</math></th> <th><math>t/^\circ\text{C}</math>.</th> <th>solid phases</th> </tr> </thead> <tbody> <tr><td>0</td><td>11.5</td><td>88.5</td><td>-2.5</td><td>ice + <math>\text{KH}_2\text{PO}_4</math></td></tr> <tr><td>11.0</td><td>8.9</td><td>80.1</td><td>-7.6</td><td>"</td></tr> <tr><td>18.4</td><td>8.0</td><td>73.6</td><td>-11.5</td><td>"</td></tr> <tr><td>37.7</td><td>5.7</td><td>56.6</td><td>-25.0</td><td>"</td></tr> <tr><td>57.8</td><td>3.6</td><td>38.6</td><td>-43.5</td><td>"</td></tr> <tr><td>65.4</td><td>0</td><td>34.6</td><td>-45.5</td><td>ice + formamide</td></tr> <tr><td>64.2</td><td>3.1</td><td>32.7</td><td>-51.2</td><td>ice + formamide + <math>\text{KH}_2\text{PO}_4</math></td></tr> <tr><td>68.1</td><td>2.7</td><td>29.2</td><td>-44.5</td><td><math>\text{KH}_2\text{PO}_4</math> + formamide</td></tr> <tr><td>88.9</td><td>1.0</td><td>10.1</td><td>-15.0</td><td>"</td></tr> <tr><td>94.4</td><td>1.1</td><td>4.5</td><td>-8.5</td><td>"</td></tr> <tr><td>95.7</td><td>1.1</td><td>3.2</td><td>-6.3</td><td>"</td></tr> <tr><td>98.8</td><td>1.2</td><td>0</td><td>-2.0</td><td>"</td></tr> </tbody> </table> <p>Solubility isotherms in the temperature range of <math>-40</math> to <math>50^\circ\text{C}</math> are given only in graphical form.</p>		$\text{HCONH}_2$	$\text{KH}_2\text{PO}_4$	$\text{H}_2\text{O}$	$t/^\circ\text{C}$ .	solid phases	0	11.5	88.5	-2.5	ice + $\text{KH}_2\text{PO}_4$	11.0	8.9	80.1	-7.6	"	18.4	8.0	73.6	-11.5	"	37.7	5.7	56.6	-25.0	"	57.8	3.6	38.6	-43.5	"	65.4	0	34.6	-45.5	ice + formamide	64.2	3.1	32.7	-51.2	ice + formamide + $\text{KH}_2\text{PO}_4$	68.1	2.7	29.2	-44.5	$\text{KH}_2\text{PO}_4$ + formamide	88.9	1.0	10.1	-15.0	"	94.4	1.1	4.5	-8.5	"	95.7	1.1	3.2	-6.3	"	98.8	1.2	0	-2.0	"
$\text{HCONH}_2$	$\text{KH}_2\text{PO}_4$	$\text{H}_2\text{O}$	$t/^\circ\text{C}$ .	solid phases																																																														
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<b>METHOD/APPARATUS/PROCEDURE:</b> A visual polythermic method was used (1) but no details are given.	<b>SOURCE AND PURITY OF MATERIALS:</b> Chemically pure $\text{KH}_2\text{PO}_4$ was recrystallized before use. Pure formamide was dehydrated and distilled under vacuum at $80-82^\circ\text{C}$ .  <b>ESTIMATED ERROR:</b> No details are given.  <b>REFERENCES:</b> 1. Bergman, A.G.; Luzhnaya, N.P. <i>Fiziko-Khimicheskie Osnovy Izucheniya i Ispol'zovaniya Sol'yanykh Mestorzhdений Khlorid-Sul'fatnogo Tipa</i> , Moscow, IAN SSSR, <u>1951</u> .																																																																	

<b>COMPONENTS:</b> (1) Potassium dihydrogenphosphate; $\text{KH}_2\text{PO}_4$ ; [7778-77-0] (2) Formamide; $\text{CH}_3\text{NO}$ ; [75-12-7] (3) Water; $\text{H}_2\text{O}$ ; [7732-18-5]	<b>ORIGINAL MEASUREMENTS:</b> Yugai, M.R.; Tukhtaev, S.; Beglov, B.M. <i>Uzb. Khim. Zh.</i> <u>1981</u> , 6, 15-8.																																				
<b>VARIABLES:</b> Composition at 50°C.	<b>PREPARED BY:</b> J. Eysseltová																																				
<b>EXPERIMENTAL VALUES:</b> Composition of saturated solutions in the $\text{KH}_2\text{PO}_4$ - $\text{HCONH}_2$ - $\text{H}_2\text{O}$ system at 50°C. <table border="1" data-bbox="463 547 797 891"> <thead> <tr> <th><math>\text{HCONH}_2</math></th> <th><math>\text{KH}_2\text{PO}_4</math></th> <th><math>\text{H}_2\text{O}</math></th> </tr> <tr> <th>mass%</th> <th>mass%</th> <th>mass%</th> </tr> </thead> <tbody> <tr><td>0</td><td>29.42</td><td>70.58</td></tr> <tr><td>3.68</td><td>25.82</td><td>70.50</td></tr> <tr><td>12.80</td><td>18.67</td><td>68.53</td></tr> <tr><td>23.59</td><td>13.83</td><td>81.33</td></tr> <tr><td>37.44</td><td>10.31</td><td>52.25</td></tr> <tr><td>51.07</td><td>7.46</td><td>41.47</td></tr> <tr><td>61.35</td><td>5.26</td><td>33.39</td></tr> <tr><td>77.42</td><td>3.58</td><td>19.00</td></tr> <tr><td>91.29</td><td>2.73</td><td>5.98</td></tr> <tr><td>98.16</td><td>1.84</td><td>0</td></tr> </tbody> </table>		$\text{HCONH}_2$	$\text{KH}_2\text{PO}_4$	$\text{H}_2\text{O}$	mass%	mass%	mass%	0	29.42	70.58	3.68	25.82	70.50	12.80	18.67	68.53	23.59	13.83	81.33	37.44	10.31	52.25	51.07	7.46	41.47	61.35	5.26	33.39	77.42	3.58	19.00	91.29	2.73	5.98	98.16	1.84	0
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<b>METHOD/APPARATUS/PROCEDURE:</b> Equilibrium was approached isothermally by stirring for 1-2 days. Nitrogen content was determined by the Kjeldahl method, phosphorus was determined gravimetrically, and potassium was determined as the tetraphenylborate. The composition of the solid phase was determined by the Schreinemakers' method.	<b>SOURCE AND PURITY OF MATERIALS:</b> Chemically pure or analytically pure $\text{KH}_2\text{PO}_4$ was used. The formamide was dried and distilled under vacuum at 80-82°C.  <b>ESTIMATED ERROR:</b> The temperature was controlled to within 0.1 K.  <b>REFERENCES:</b>																																				