

COMPONENTS:				ORIGINAL MEASUREMENTS:			
1. Ammonium pyrosulfite; $(\text{NH}_4)_2\text{S}_2\text{O}_5$; [32736-64-4]				Vasilenko, N.A.			
2. Water; H_2O ; [7732-18-5]				Zh. Priklad. Khim. <u>1948</u> , 21, 917-26.			
VARIABLES:				PREPARED BY:			
Temperature: 256 - 333 K				Mary R. Masson			
EXPERIMENTAL VALUES:							
$t/^\circ\text{C}$	NH_4HSO_3 mass %	$\text{NH}_4\text{HSO}_3^a$ mol/kg	Solid ^b phase	$t/^\circ\text{C}$	NH_4HSO_3 mass %	$\text{NH}_4\text{HSO}_3^a$ mol/kg	Solid ^b phase
-17.0	66.4	.1h8					
- 3.4	9.4	1.047	A	-13.8	67.9	21.343	B
- 6.0	16.8	2.037	A	-10.0	68.4	21.840	B
- 8.7	22.7	2.963	A	- 9.2	69.5	22.992	B
-10.2	27.5	3.827	A	- 3.3	70.7	24.346	B
-12.2	30.9	4.512	A	- 4.0	71.2	24.944	B
-13.8	34.9	5.409	A	- 0.2	72.3	26.335	B
-16.6	40.3	6.811	A	0.0	72.8	27.005	B
-18.9	44.5	8.090	A	0.0	71.8	25.690	B
-21.5	48.5	9.502	A	+ 4.6	73.5	27.985	B
-24.2	51.3	10.628	A	5.1	73.1	27.419	B
-25.0	53.2	11.470	A	13.8	75.6	31.262	B
-26.2	54.4	12.037	A	15.7	76.6	33.029	B
-29.0	57.8	13.820	A	20.0	74.5	29.478	B
-24.8	63.6	17.629	B	25.0	78.41	36.644	B
-21.7	64.4	18.252	B	40.0	80.3	41.127	B
-21.0	65.0	18.738	B	40.0	80.64	42.027	B
-16.7	66.3	19.850	B	60.0	86.1	62.499	B
-17.0	66.4	19.939	B	60.0	84.7	55.857	B
<p>a Molalities calculated by the compiler.</p> <p>b Solid phases: A - ice, B - $(\text{NH}_4)_2\text{S}_2\text{O}_5$</p>							
AUXILIARY INFORMATION							
METHOD APPARATUS/PROCEDURE:				SOURCE AND PURITY OF MATERIALS:			
Isothermal method.							
				ESTIMATED ERROR:			
				No estimates possible.			
				REFERENCES:			