

<b>COMPONENTS:</b> (1) Ammonium iodate; $\text{NH}_4\text{IO}_3$ ; [13446-09-8] (2) Water; $\text{H}_2\text{O}$ ; [7732-18-5]		<b>ORIGINAL MEASUREMENTS:</b> Opalovskii, A.A.; Kuznetsova, Z.M. <i>Izv. Sib. Otd. Akad. Nauk SSSR</i> 1962, No. 3. 64-9.	
<b>VARIABLES:</b> T/K = 273 to 358		<b>PREPARED BY:</b> Hiroshi Miyamoto	
<b>EXPERIMENTAL VALUES:</b>			
t/°C	$\text{I}_2\text{O}_5$ mass %	$\text{NH}_4\text{IO}_3^a$ mol $\text{kg}^{-1}$	Nature of the solid phase
0	2.03	2.35	$\text{NH}_4\text{IO}_3 \cdot 0.75\text{H}_2\text{O}$
25	3.30	3.81	"
50	6.04	6.98	"
85	8.86	10.2	"
<sup>a</sup> Molalities calculated by the compiler using 1977 IUPAC recommended atomic masses.			
<b>AUXILIARY INFORMATION</b>			
<b>METHOD/APPARATUS/PROCEDURE:</b> Probably the isothermal method was used. The ammonia content was determined by a distillation method, and iodate was determined iodometrically. The composition of the solid phase was determined by thermography and X-ray analysis.		<b>SOURCE AND PURITY OF MATERIALS:</b> Ammonium iodate was prepared by treating ammonium fluoride with iodic acid.	
		<b>ESTIMATED ERROR:</b> Nothing specified.	
		<b>REFERENCES:</b>	