			opannigiy oo					
COMPONENTS :		ORIGINAL MEASUREMENTS:						
 Zinc selenite; ZnSeO₃; [13597-46-1] Nitric scid: HNO.: [7697-37-2] 				Chukhlantsev, V.G.				
2a. Nıtric acid; HNO ₃ ; [7697-37-2] 2b. Sulfuric acid; H ₂ SO ₄ ; [7664-93-9]				Zh. Neorg. Khim. <u>1956</u> , 1, 2300-5; *Russ. J. Inorg. Chem. (Eng. Trans1.) <u>1956</u> , 1,				
3. Water; H		18-5]		132-8.				
VARIABLES:		PREPARED BY:						
HNO ₃ and H ₂ SO		Mary R. Masson						
One temperatu								
EXPERIMENTAL V		entratio	ons are expre	ssed in u	nits of mol	dm ⁻³ .		
Soln.	Initial pH	Final pH	[Zn ²⁺]	pZn	log a _{L(H)}	p[Se03 ⁻]	₽ ^K s0	
hno ₃	2.97 2.27 2.00	7.28 5.84 5.09	1.82 x 10 ⁻³ 7.27 x 10 ⁻³ 1.15 x 10 ⁻²	2.14	0.80 2.15 2.90	3.54 4.29 4.84	6.28 6.43 6.78	
н ₂ SO ₄	2.53 2.11 2.03	6.52 5.41 5.18	2.93×10^{-3} 9.06 x 10 ⁻³ 1.08 x 10 ⁻²	2.04	1.47 2.60 2.80	4.00 4.64 4.77	6.53 6.68 6.84	
The average value is $K_{s0} = 2.58 \times 10^{-7} \text{ mol}^2 \text{dm}^{-6}$. (p $K_{s0} = 6.59$)								
			AUXILIARY	INFORMAT	ION			
METHOD APPARAT	US/PROCEDUR	RE :		SOURCE A	ND PURITY OF	MATERIALS:	• • • • • • • • • • • • • • • • • • •	
Solutions of nitric and sulfuric acids were saturated with zinc selenite by stirring in a thermostat at 20°C for 8 hr. The remaining solid phase was removed by centrifugation, then the pH was measured ("Moskip" pH meter, to 0.01 pH unit) and the zinc concentration was determined (method not stated).				C.Pgrade reagents were used. Zinc selenite was precipitated at $50 - 60^{\circ}$ C by mixing a 0.1N solution of sodium selenite with the stoichiometric amount of zinc sulfate. The precipitate crystallized on prolonged keeping in the mother liquor. It was washed with water and dried at 40° C. Zinc was determined gravimetrically after precipitation with hydroxyquinoline, and selenium gravimetrically as the element. ESTIMATED ERROR: The spread in the results is 0.56 of a log unit. Temperature: probably ± 0.05 K				
				REFERENO		t. Rendu <u>193</u>	<u>33,</u> 197, 686	•

Jupie Selenites			
ORIGINAL MEASUREMENTS:			
Ripan, R.; Vericeanu, G.			
Studia Univ. Babes-Bolyaı, Ser. Chım. <u>1968</u> , 13, 31-37.			
PREPARED BY:			
Mary R. Masson			
essed in units of mol dm^{-3} .			
Mean K_{s0} pK_{s0}			
$^{-8}$ 1.9 ± 0.3 x 10 ⁻⁸ 7.71			
-8			
$mo1^2 dm^{-6}$			
-8			
-8			
-8			
was calculated from the measured nductivity of the selenite ion nor in the			
tivities from selenite. If the ionic the experimental results could have been value does not seem to be available. The solutions had concentrations of about the scel to some extent, but the K_{s0} value cannot			
INFORMATION			
CONDCE AND PURITY OF MATERIALS.			
SOURCE AND PURITY OF MATERIALS: Lithium selenite was prepared from sublimed selenium dioxide by neutralization with lithium hydroxide. An approximately 0.05M solution was standardized gravimetrically, and this was used to prepare the various dilutions. The composition of the selenite was checked by analysis.			
Temperature: $\pm 0.5 \text{ K}$ Error in K_{s0} (2s) = 1.5 x 10 ⁻⁶ (compiler)			