COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Manganese, bis(4-amino-N-2-thiazolyl-benzenesulfonamidato-N^N,O)-hydrate; $C_{18}H_{16}MnN_6O_4S_4 \cdot nH_2O$; [84812-77-1]	Tskitishvili, M.G.; Shvelashvili, A. E.; Mikadze, I. I.; Zhorzholiani, N. B.; Chrelashvili, M. V. *Izv. Akad. Nauk Gruz. SSR, Ser. Khim.* 1981, *7(4)*, 300-4.
(2) Hydrochloric acid; HCl; [7647-01-0]	
(3) Water; H_2O; [7732-18-5]	
VARIABLES: pH	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

Concentration of HCl (mol/l)	pH	10^9 K_{so} at 25°C
5.0×10^{-3}	5.54	1.50
2.5×10^{-3}	5.57	1.48
1.0×10^{-3}	5.65	1.52
5.0×10^{-4}	5.79	1.46
2.5×10^{-4}	6.08	1.49
1.0×10^{-4}	6.29	1.51
5.0×10^{-5}	6.45	1.49
1.5×10^{-5}	6.72	1.47
	Mean	1.49

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

The earlier described apparatus and method was used (1): in a glass vessel a mixt of 100 ml of HCl of appropriate concn and the solute were placed and shaken for 6 h in a water thermostat at 25°C. After attaining equilibrium, the pH of the soln was measured and the Mn^{2+} and S content was detd to calculate K_{so}. The pH was measured on a pH-673 pH meter.

SOURCE AND PURITY OF MATERIALS:

0.1M solns of chemically pure $Mn(OAc)_2$, monosodium salt of sulfathiazole and HCl as well as doubly distd water were used. The source of the materials was not specified.

ESTIMATED ERROR:

K_{so}: std deviation 2×10^{-11} (compiler)

Temp and pH: not specified.

REFERENCES:

1. Tskitishvili, M. G.; Mikadze, I. I.; *Soobshch. Akad. Nauk Gruz. SSR* 1978, *89(3)*, 589.