COMPONENTS:	EVALUATOR:
(1) Benzenesulfonamide, 4-amino-N-(3-4-dimethyl-5-isoxazolyl)-(sulfisoxazole) $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Water (3) Ethanol	Anthony N. Paruta Department of Pharmaceutics University of Rhode Island Kingston, Rhode Island, USA and Ryszard Piekos Faculty of Pharmacy, University of Gdansk Gdansk, Poland 1986

CRITICAL EVALUATION:

Aqueous solubilities of the compound at 310K as determined twice, in 1978 and 1980, by the same laboratory (1,2) using virtually identical methods and procedures and are the same. Assuming that the values were independently determined, the recommended value is 1.09×10^{-3} mol dm^{-3} in water at 298K.

Ethanolic solubilities were determined at 303K by two independent groups (3,4). The results are only within 10%, and the equilibrium time unclear (4). The tentative average value of sulfisoxazole in ethanol at 303K is given as 81.6×10^{-3} mol dm^{-3}. This value is about 75 times higher than that of water.

REFERENCES:

(1) Kaneniwa, N.; Watari, N. *Chem. Pharm. Bull.* 1978, *26(3)*, 813-26.
(2) Watari, N.; Kaneniwa, N.; Hanano, M. *Int. J. Pharm.* 1980, *6(2)*, 155-66.
(3) Mauger, J.W.; Petersen, H., Jr.; Alexander, K.S.; Paruta, A.N. *Drug Dev. Ind. Pharm.* 1977, *3(2)*, 163-83.
(4) Sekikawa, H.; Nakano, M.; Arita, T. *Chem. Pharm. Bull.* 1978, *26(1)*, 118-26.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Water; H_2O; [7732-18-5]	Yamazaki, M; Aoki, M.; Kamada, A.; Yata, N.; *Yakuzaigaku* 1967, *27(1)*, 37-40.
VARIABLES: One temperature: 30°C	**PREPARED BY:** R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in water at 30°C is 0.83 mmol/L
(0.22 g dm^{-3}, compiler).

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
Sulfisoxazole (0.5 g) was placed in an L-shaped tube together with 20 ml of water. The mixt was shaken in a thermostat until equilibrium was attained. The sulfisoxazole was assayed in the supernatant spectrophotometrically at 545 nm on a Beckman DU spectrophotometer. The results were taken from a calibration graph.	Nothing specified
	ESTIMATED ERROR: Soly: not specified Temp: ±1°C (authors)
	REFERENCES:

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Water; H_2O; [7732-18-5]	Kaneniwa, N.; Watari, N. *Chem. Pharm. Bull.* 1978, *26(3)*, 813-26.
VARIABLES: One temperature: 37°C	**PREPARED BY:** R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in water at 37°C is 0.292 mg/ml solution (1.09×10^{-3} mol dm^{-3}, compiler).

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
An excess of sulfisoxazole was placed in a flask contg 25 ml of water. The flask was shaken (2 strokes/s at the amplitude of 3 cm) in a thermostatically controlled water bath at 37°C. One-ml sample was withdrawn every 6 h (total equilibration period was 3-5 days) using a warmed Millipore filter syringe with a filter pore size of 0.45 μ (Millipore HAWP 01300) and the filtrate was dild with water and assayed spectrophotometrically (1).	Commercial sulfisoxazole of the Japanese Pharmacopeia grade and distd water were used.
	ESTIMATED ERROR: Soly: not specified. Temp: ±0.05°C (authors).
	REFERENCES: 1. Kaneniwa, N.; Watari, N. *Chem. Pharm. Bull.* 1974, *22*, 1699.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Water; H_2O; [7732-18-5]	Watari, N; Kaneniwa, N.; Hanano, M. *Int. J. Pharm.* 1980, *6(2)*, 155-66.
VARIABLES: One temperature: 37°C	**PREPARED BY:** R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in water at 37°C is 29.2 mg/100 ml (1.09×10^{-3} mol dm^{-3}, compiler).

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

The earlier developed method was employed (1), whereby an excess of sulfisoxazole, required to saturate medium, was placed in a flask contg 25 ml of water. The flask was shaken (2 strokes/s) at an amplitude of 3 cm, in a thermostatically controlled bath. One-ml sample was removed every 6 h (total equilibration time was 3-5 days) using a warmed Millipore filter syringe with a filter pore size of 0.45 μ (Millipore HAWP 01300) and the filtrate was dild with water and assayed spectrophotometrically.

SOURCE AND PURITY OF MATERIALS:

Sulfisoxazole was of the Japanese Pharmacopeia grade.
Distilled water was used.

ESTIMATED ERROR:

Soly: not specified
Temp: ±0.05°C (authors)

REFERENCES:

1. Kaneniwa, N.; Watari, N.
Chem. Pharm. Bull. 1974, *22*, 1699.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Hydrochloric acid; HCl; [7647-01-0] (3) Water; H_2O; [7732-18-5]	Ogata, H.; Shibazaki, T.; Inoue, T.; Ejima, A. *Chem. Pharm. Bull.* 1979, *27(6)*, 1281-6.
VARIABLES: One temperature: 37°C	**PREPARED BY:** R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in 0.1N HCl at 37°C is 1.440 mg/ml (5.387×10^{-3} mol dm^{-3}, compiler).

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
A centrifuge tube contg 30 ml of 0.1N HCl and 0.5-3.0 g of the sulfisoxazole powder was tightly sealed and shaken at 37°C. The concn of the dissolved drug was detd spectrophotometrically following filtration through a Millipore filter (type EH, pore size 0.5 μm), and the procedure was repeated every 24 h until a const concn was obtained.	Comm available 500-mg uncoated tablets of sulfisoxazole were used. Hydrochloric acid was of reagent grade.
	ESTIMATED ERROR: Nothing specified
	REFERENCES:

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)-(sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Carbonic acid, monosodium salt; $NaHCO_3$; [144-55-8] (3) Water; H_2O; [7732-18-5]	Takubo, T.; Matsumaru, H.; Tsuchiya, S.; Hiura, M. *Chem. Pharm. Bull.* 1973, *21(7)*, 1440-5.
VARIABLES: One temperature: 37°C; one pH: 8.4	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in a $NaHCO_3$ solution (1.680 g $NaHCO_3$/100 ml water) of pH 8.4 at 37°C is 31.25 mg/ml solution[a] (1.169×10^{-1} mol dm^{-3} solution, compiler).

[a]Numerical value to the graphical data was given by one of the authors (S. T.) in personal communication.

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

Aliquots of the $NaHCO_3$ soln were placed in glass-stoppered flasks with excess of sulfisoxazole. The flasks were allowed to stand at 37±1°C and shaken vigorously for 4 h until equilibrium was attained. One ml of the supernatant was removed by means of a filter pipet and sulfisoxazole was assayed by the previously reported method (1).

SOURCE AND PURITY OF MATERIALS:

The sulfisoxazole was of the pharmaceutical grade. The source and purity of $NaHCO_3$ was not specified.
Distd was used.

ESTIMATED ERROR:

Soly and pH: not specified.
Temp: ±1°C (authors).

REFERENCES:

1. Takubo, T.; Tsuchiya, S.; Hiura, M. *Yakuzaigaku* 1971, *31*, 298.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)-(sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Carbonic acid; disodium salt; Na_2CO_3; [497-19-8] (3) Water; H_2O; [7732-18-5]	Takubo, T. ; Matsumaru, H.; Tsuchiya, S.; Hiura, M. *Chem. Pharm. Bull.* 1973, *21(7)*, 1440-5.
VARIABLES: One temperature: 37°C; one pH: 11.3	**PREPARED BY:** R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in a Na_2CO_3 solution (2.120 g Na_2CO_3/100 ml water) of pH 11.3 at 37°C is 54.12 mg/ml solution[a] (2.025×10^{-1} mol dm^{-3} solution, compiler).

[a]Numerical value for the graphical data was given by one of the authors (S. T.) in personal communication.

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
Aliquots of the Na_2CO_3 solution were placed in glass-stoppered flasks with excess of sulfisoxazole. The flasks were allowed to stand at 37±1°C and shaken vigorously for 4 h until equilibrium was established. One ml of the supernatant was removed by means of a filter pipet and sulfisoxazole was assayed by the previously reported method (1).	The sulfisoxazole was of pharmaceutical grade. The source and purity of Na_2CO_3 was not specified. Distd water was used.
	ESTIMATED ERROR: Soly and pH: not specified. Temp: ±1°C.
	REFERENCES: 1. Takubo, T.; Tsuchiya, S.; Hiura, M. *Yakuzaigaku* 1971, *31*, 298.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)-(sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Carbonic acid; disodium salt; Na_2CO_3; [497-19-8] (3) Carbonic acid; monosodium salt; $NaHCO_3$; [144-55-8] (4) Water; H_2O; [7732-18-5]	Takubo, T.; Matsumaru; H. ; Tsuchiya, S.; Hiura, M. *Chem. Pharm. Bull.* 1973, *21(7)*, 1440-5.
VARIABLES: pH	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

Na_2CO_3	$NaHCO_3$	pH	Solubility at 37°C	
g/100 ml water	g/100 ml water		mg/ml soln[a]	10 mol dm^{-3} soln[b]
0.212	1.512	9.1	35.84	1.341
0.848	1.008	9.8	48.97	1.832
1.908	0.168	10.7	54.12	2.025

[a]Numerical values to the graphical data were given by one of the authors (S.T.) in personal communication.

[b]Calculated by compiler.

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

Aliquots of carbonate buffer solns were placed in glass-stoppered flasks with excess of sulfisoxazole. The flasks were allowed to stand at 37±1°C and shaken vigorously for 4 h until equilibrium was established. One ml of the supernatant was removed by means of a filter pipet and sulfisoxazole was assayed by the previously reported method (1).

SOURCE AND PURITY OF MATERIALS:

The sulfisoxazole was of pharmaceutical grade. The source and purity of Na_2CO_3 and $NaHCO_3$ were not specified. Distd water was used.

ESTIMATED ERROR:

Soly and pH: not specified.
Temp: ±1°C (authors).

REFERENCES:

1. Takubo, T.; Tsuchiya, S.; Hiura, M. *Yakuzaigaku*, 1971, *31*, 298.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Phosphoric acid, disodium salt; Na_2HPO_4; [7558-94-4] (3) Phosphoric acid, monopotassium salt; KH_2PO_4; [7778-77-0] (4) Water; H_2O; [7732-18-5]	Bandelin, F.J.; Malesh, W. *J. Am.Pharm. Assoc., Sci. Ed.* 1959, *48*, 177-81.
VARIABLE: pH	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in buffers of varying mixtures of $Na_2HPO_4 \cdot 7H_2O$ (71.6 g/l; distilled water; 0.27 mol dm^{-3}, compiler) and KH_2PO_4 (36.3 g/l distilled water; 0.27 mol dm^{-3}, compiler) at 37°C

Initial pH	Solubility	
	mg/100 ml	10^2 mol dm^{-3} [a]
4.5	33	0.12
5.0	45	0.16
5.5	70	0.26
6.0	175	0.65
6.5	405	1.51
7.0	1360	5.08
7.5	2870	10.73

[a] calculated by compiler

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
Solns were prepd by adding an excess of sulfisoxazole to 10 ml of buffer soln at each pH level in 18 x 150-mm test tubes, stoppering the tubes and placing them in a water bath at 37°C with gentle agitation for 24 h. The mixt was then filtered and a 1-ml aliquot was accurately pipetted into a volumetric flask for diln and analysis. The balance was retained for pH detn to ascertain any change in pH value. The sulfonamide was assayed colorimetrically by the method of Bratton and Marshall as described in detail by Biamonte and Schneller (1). A standard curve was prepd using accurately prepd standard solutions.	Neither source nor purity of the reagents were specified. Distilled water was used.
	ESTIMATED ERROR: Soly: av values of duplicate runs are reported (authors). Temp and pH: not specified.
	REFERENCES: 1. Biamonte, A.R.; Schneller, G.E. *J. Am. Pharm. Assoc., Sci. Ed.*, 1952, *41*, 341.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Phosphoric acid, disodium salt; Na_2HPO_4; [7558-94-4] (3) Phosphoric acid, monopotassium salt; KH_2PO_4 [7778-77-0] (4) Water; H_2O; [7732-18-5]	Riess, W. *Intern. Congr. Chemotherapy, Proc. 3rd, Stuttgart* 1963, *1*, 627-32.
VARIABLE: One temperature: 20°C; one pH: 7.4	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in a M/15 Sörensen buffer solution (pH 7.4) at 20°C is 4000 mg% (0.1496 mol dm^{-3} solution, compiler).

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
Sörensen buffer solns of pH varying between 7 and 8 were prepd, satd with sulfisoxazole at 20°C, their pH was measured at equilibrium and the sulfisoxazole was assayed colorimetrically. The measured pH values were then plotted against concn., and the soly at pH 7.4 was detd by interpolation (personal communication).	Nothing specified.
	ESTIMATED ERROR: Nothing specified.
	REFERENCES:

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Phosphoric acid, disodium salt; Na_2HPO_4; [7558-94-4] (3) Phosphoric acid, monopotassium salt; KH_2PO_4; [7778-77-0] (4) Water; H_2O; [7732-18-5]	Yamazaki, M.; Aoki, M.; Kamada, A.; Yata, N. *Yakuzaigaku*, 1967, *27(1)*, 37-40.
VARIABLES: One temperature: 30°C; one pH: 7.4	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in a phosphate buffer solution of pH 7.4[a] (μ = 0.17) at 30°C is 32.1 mmol/L (8.580 g dm^{-3}, compiler).

[a]At the end of experiment the pH was 6.5

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
Sulfisoxazole (0.5 g) was placed in an L-shaped tube together with 20 ml of the buffer soln. The mixt was shaken in a thermostat until equilibrium was attained. The sulfisoxazole was assayed in the supernatant spectrophotometrically at 545 nm on a Beckmann DU spectrophotometer. The results were taken from a calibration graph.	Nothing specified
	ESTIMATED ERROR: Soly and pH: not specified Temp: ±1°C (authors)
	REFERENCES:

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfafurazole)*; $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Phosphoric acid, disodium salt; Na_2HPO_4; [7558-94-4] (3) Phosphoric acid, monopotassium salt; KH_2PO_4; [7778-77-0] (4) Water; H_2O; [7732-18-5]	Hekster, Ch. A.; Vree, T.B. *Antibiotics Chemother.* 1982, *31*, 22-118.
VARIABLES: pH	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

pH	Solubility at 25°C	
	mg/l	10^3 mol dm^{-3}
5.5	1,533	5.735
7.5[b]	4,724	17.670

[a]Calculated by compiler

[b]Erroneous pH value of 7.0 is given in the article

*Another common trivial name is sulfisoxazole.

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

The earlier developed method (1) was used (personal communication). Satd solns of sulfafurazole* were prepd in phosphate buffers of pH 5.5 and 7.5 at 25°C. The concn of the solute was measured by means of a Spectra Physics 3500B high-performance liquid chromatograph equipped with a Model 748 column oven and a Pye-Unicam LC-UV spectrophotometric detector.

SOURCE AND PURITY OF MATERIALS:

Neither source nor the purity of the materials was specified.

ESTIMATED ERROR:

Soly: the detection limit of the solute by HPLC was 0.5 mg/l (authors). The errors in temp and pH were not specified.

REFERENCES:

1. Hekster, Y.A.; Vree, T.B.; Damsma, J.E.; Friesen, W.T.
J. Antimicrob. Chemother. 1981, *8*, 133.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Calcium chloride; $CaCl_2$; [10043-52-4] (3) Magnesium chloride; $MgCl_2$; [7786-30-3] (4) Phosphoric acid, monoammonium salt; $NH_4H_2PO_4$; [7722-76-1] (5) Potassium chloride; KCl; [7447-40-7] (6) Sodium chloride; NaCl; [7647-14-5] (7) Urea; CH_4N_2O; [57-13-6] (8) Water; H_2O; [7732-18-5]	Bandelin, F. J.; Malesh, W. *J. Am. Pharm. Assoc., Sci. Ed.* 1959, *48*, 177-81.
VARIABLES: pH at 37°	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in a solution containing $CaCl_2$ 0.143, $MgCl_2$ 0.121, $NH_4H_2PO_4$ 0.300, KCl 1.660, NaCl 2.950 and urea 20 g/dm^3 (synthetic urine, Mosher Vehicle) at 37°C.

Equilibrium pH	Solubility	
	mg/100 ml	10^2 mol/dm^3 [a]
4.5	36	0.13
5.0	51	0.19
5.5	80	0.29
6.0	220	0.82
6.4	710	2.66
6.7	2600	9.73

[a] calculated by compiler

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
Excess sulfisoxazole was added to aliquots of synthetic urine solns and 1% H_3PO_4 or 1% NaOH solns were used to adjust the pH to the required value. The solns were agitated for 24 h with addn of acid or base to keep them at the desired pH level until equilibrium was attained. Then the solns were filtered and in aliquots the sulfonamide was assayed spectrophotometrically by the method described by Biamonte and Schneller (1).	Nothing specified
	ESTIMATED ERROR: Soly: average values of 2 detns were given. Temp: not specified pH : not specified
	REFERENCES: 1. Biamonte, A.R.; Schneller, G. E. *J. Am. Pharm. Assoc., Sci. Ed.* 1952, *41*, 341.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (citric acid); $C_6H_8O_7$; [77-92-9] (3) Water; H_2O; [7732-18-5]	Takubo, T.; Matsumaru, H.; Tsuchiya, S.; Hiura, M. *Chem. Pharm. Bull.* 1973, *21(7)*, 1440-5.
VARIABLES:	**PREPARED BY:**
One temperature: 37°C; one pH: 2.1	R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in a citric acid solution (2.100 g citric acid per 100 ml water) of pH 2.1 at 37°C is 0.31 mg/ml solution[a] (1.16×10^{-3} mol dm^{-3} solution, compiler).

[a]Numerical value to the graphical one was given by one of the authors (S.T) in personal communication.

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

Aliquots of the citric acid soln were placed in glass-stoppered flasks with excess of sulfisoxazole. The flasks were allowed to stand at 37±1°C and shaken vigorously for 4 h until equilibrium was established. One ml of the supernatant was removed by means of a filter and the sulfanilamide was assayed by the previously reported method (1).

SOURCE AND PURITY OF MATERIALS:

The sulfanilamide was of pharmaceutical grade. Source and purity of the citric acid was not specified.
Distd water was used.

ESTIMATED ERROR:

Soly and pH: not specified
Temp: ±1°C (authors)

REFERENCES:

1. Takubo, T.; Tsuchiya, S.; Hiura, M. *Yakuzaigaku* 1971, *31*, 298.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Phosphoric acid, disodium salt; Na_2HPO_4; [7558-94-4] (3) 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (citric acid); $C_6H_8O_7$; [77-92-9] (4) Water; H_2O; [7732-18-5]	Takubo, T.; Matsumaru, H.; Tsuchiya, S.; Hiura, M. *Chem. Pharm. Bull.* 1973, *21(7)*, 1440-5.
VARIABLES: pH	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

Citric acid	Na_2HPO_4	pH	Solubility at 37°C	
g/100 g water	g/100 g water		mg/ml soln[a]	10^2 mol dm^{-3} soln[b]
1.680	0.572	3.1	0.23	0.086
1.260	0.144	4.2	0.30	0.112
0.840	1.716	5.8	1.70	0.636
0.420	2.228	6.8	8.50	3.180

[a]Numerical values to the graphical ones were given by one of the authors (S. T.) in personal communication.

[b]Calculated by compiler.

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:
Aliquots of the buffer solns were placed in glass-stoppered flasks with excess of sulfisoxazole. The flasks were allowed to stand at 37±1°C and shaken vigorously for 4 h until equilibrium was established. One ml of the supernatant was removed by means of a filter pipet and sulfisoxazole was assayed by the previously reported method (1).

SOURCE AND PURITY OF MATERIALS:
The sulfisoxazole was of the pharmaceutical grade. The source and purity of Na_2HPO_4 and citric acid were not specified. Distd water was used.

ESTIMATED ERROR:
Soly and pH: not specified.
Temp: ±1°C (authors)

REFERENCES:
1. Takubo, T.; Tsuchiya, S.; Hiura, M. *Yakuzaigaku*, 1971, *31*, 298.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Phosphoric acid, disodium salt; Na_2HPO_4; [7558-94-4] (3) 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (citric acid); $C_6H_8O_7$; [77-92-9] (4) Water; H_2O; [7732-18-5]	Biamonte, A.R.; Schneller, G.H. *J. Am. Pharm. Assoc., Sci. Ed.* 1952, *41*, 341-5.
VARIABLES: pH	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfafurazole* in McIlvaine's disodium phosphate - citric acid buffer solution at 37°.

Initial pH of buffer	Solubility		Final pH
	mg/100 ml	10^2mol dm^{-3} [a]	
4.5	32.3	0.121	4.5
5.0	51.6	0.193	5.0
5.5	108.7	0.407	5.5
6.0	262.0	0.980	5.9
6.5	616.0	2.304	6.3
7.0	2,135.0	7.987	6.8

[a]Calculated by compiler

*Another common trivial name is sulfisoxazole.

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

Sulfafurazole* (500 mg) was equilibrated in a water bath with 50 ml of the buffer soln for 18 h at 37°C with agitation. The suspension was then immediately filtered through a Whatman No. 1 paper. The filtration time was approx 2 min. Sulfafurazole* in the filtrate was assayed spectrophotometrically by the Bratton and Marshall method (1) using a Beckman DU spectrophotometer, at 545 nm.

SOURCE AND PURITY OF MATERIALS:

The source of sulfafurazole* (mp 193.4 - 193.9°C) was not specified. The source and purity of the remaining materials were not specified.

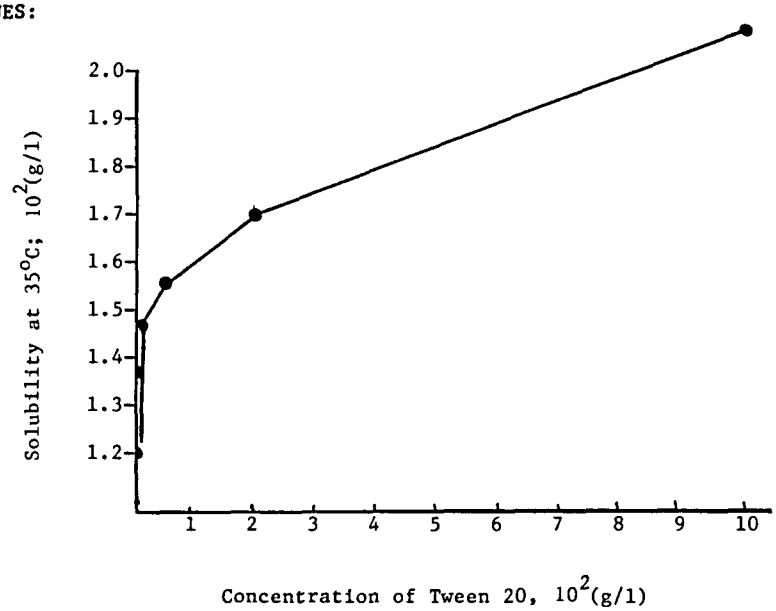
ESTIMATED ERROR: pH and temp: not specified. Accuracy of the anal method was illustrated by the following values: expected 2.003, 3.004, 4.006, 5.007 mg/100 ml; found: 2.08, 3.06, 4.12, 5.10, resp.

REFERENCES:

1. Bratton, A.C.; Marshall, E.K., Jr. *J. Biol. Chem.* 1939, *128*, 537.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Sorbitan monolaurate, polyoxyethylene derivatives (Tween 20); [9005-64-5] (3) Water; H_2O; [7732-18-5]	Khawam, M.N.; Yousef, R.T.; Czetsch-Lindenwald, H. *Sci. Pharm.* 1966, *34*, 209-13.
VARIABLES: Concentration of Tween 20	**PREPARED BY:** R. Piekos

EXPERIMENTAL VALUES:



AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
An earlier described method was employed (1) whereby a 100-ml conical flask contg a Tween 20 soln was placed in a drying cabinet at 35°C and an excess of sulfisoxazole was added under stirring for 1 h. After 12 h the soln was filtered or decanted and the solute was assayed in the filtrate spectrophotometrically using a Unicam SP 500 spectrophotometer and 1-ml quartz cuvets. Results were taken from a calibration graph.	Neither source nor purity of sulfisoxazole and water were specified. Tween 20 was supplied by Atlas-Goldschmidt A.G., Essen (purity not specified).
	ESTIMATED ERROR: Nothing specified
	REFERENCES: 1. Khawam, M.N.; Tawashi, R.; Czetsch-Lindenwald, H. v. *Sci. Pharm.* 1965, *33*, 90.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Methanol; CH_4O; [67-56-1]	Mauger, J.W. ; Petersen, H. Jr.; Alexander, K. S.; Paruta, A. N. *Drug Dev. Ind. Pharm.* 1977, *3(2)*, 163-83.
VARIABLES: Temperature	**PREPARED BY:** R. Piekos

EXPERIMENTAL VALUES:

t/°C	Solubility		
	mg/ml	10^3X [a]	mol dm^{-3} [b]
25	49.4	7.52	0.184
30	56.0	8.57	0.209
37	67.9	10.40	0.254

[a] X = mole fraction

[b] calculated by compiler

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

A const temp bath contg screw-capped bottles with sulfisoxazole in excess and methanol was rotated for 24 h. Samples were withdrawn through a pledget of glass wool into a pipet, which was wiped clean and allowed to drain into a volumetric flask. Soly was detd from absorbance and previously ascertained Beer's law plots detd on a Cary model 16 spectrophotometer (1).

SOURCE AND PURITY OF MATERIALS:

Sulfisoxazole: lot 378067, Hoffman-LaRoche. Its mp agreed with the literature value. Methanol was spectrograde solvent from Mallinckrodt Chemical Works.

ESTIMATED ERROR:

Soly: av. of at least 3 detns is reported (authors).

Temp: ±0.1°C (authors).

REFERENCES:

1. Mauger, J. W.; Paruta, A. N.; Gerraughty, R. J. *J. Pharm. Sci.* 1972, *61(1)*, 94.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Ethanol; C_2H_6O; [64-17-5]	Mauger, J. W.; Petersen, H. Jr.; Alexander, K. S.; Paruta, A. N.; *Drug Dev. Ind. Pharm.* 1977, *3(2)*, 163-83.
VARIABLES: Temperature	**PREPARED BY:** R. Piekos

EXPERIMENTAL VALUES:

t/°C	Solubility		
	mg/ml	$10^3 X$ [a]	10^2 mol dm^{-3} [b]
25	19.1	4.18	7.14
30	22.6	4.99	8.45
37	26.6	5.90	9.95

[a] X = mole fraction

[b] calculated by compiler

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

A const temp bath contg screw-capped bottles with sulfisoxazole in excess and ethanol was rotated for 24 h. Samples were withdrawn through a pledget of glass wool into a pipet, which was wiped clean and allowed to drain into a volumetric flask. Soly was detd from absorbance and previously ascertained Beer's law plots detd on a Cary model 16 spectrophotometer (1).

SOURCE AND PURITY OF MATERIALS:

Sulfisoxazole: lot 378067, Hoffman-LaRoche, Inc. Its mp agreed with the literature value. Ethanol was from the U.S. Industrial Chemical Co. Its refractive index value and density agreed with literature values.

ESTIMATED ERROR:

Soly: av of at least 3 detns is reported (authors).

Temp: ±0.1°C (authors).

REFERENCES:

1. Mauger, J. W.; Paruta, A.N.; Gerraughty, R. J. *J. Pharm. Sci.* 1972, *61(1)*, 94.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Ethanol; C_2H_6O; [64-17-5]	Sekikawa, H.; Nakano, M.; Arita, T. *Chem. Pharm. Bull.* 1978, *26(1)*, 118-26.
VARIABLES: Temperature	**PREPARED BY:** R. Piekos

EXPERIMENTAL VALUES:

t/°C	Solubility[a] 10^2 mol dm^{-3} solution
10	4.43
20	5.98
30	7.86
40	11.0
50	15.2

[a]Original data are presented graphically. The numerical data are given by the authors.

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

After attaining equilibrium, sample solns were removed by a syringe and filtered quickly through a membrane filter (pore size 0.2 μ) and sulfisoxazole was assayed spectrophotometrically at 269 nm using a Hitachi Type 200-20 spectrophotometer.

SOURCE AND PURITY OF MATERIALS:

Sulfisoxazole (Yamanouchi Pharmaceutical Co.) was of the Japanese Pharmacopeia IX grade. Abs EtOH was obtained by drying and distn of EtOH following the conventional procedures.

ESTIMATED ERROR:

Nothing specified

REFERENCES:

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)-(sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) 1-Propanol; C_3H_8O; [71-23-8]	Mauger, J. W.; Petersen, H., Jr.; Alexander, K. S.; Paruta, A. N. *Drug Dev. Ind. Pharm.* 1977, *3(2)*, 163-83.
VARIABLES: Temperature	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

t/°C	Solubility		
	mg/ml	10^3X [a]	10^2 mol dm^{-3} [b]
25	7.95	2.23	2.97
30	9.53	2.69	3.56
37	12.2	3.44	4.56

[a] X = mole fraction

[b] calculated by compiler

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

A const temp bath contg screw-capped bottles with sulfisoxazole in excess and 1-propanol was rotated for 24 h. Samples were withdrawn through a pledget of glass wool into a pipet, which was wiped clean and allowed to drain into a volumetric flask. Soly was detd from absorbance and previously ascertained Beer's law plots detd on a Cary model 16 spectrophotometer (1).

SOURCE AND PURITY OF MATERIALS:

Sulfisoxazole: lot 378067, Hoffman-LaRoche, Inc. Its mp agreed with the literature value. 1-Propanol was Baker Analyzed Reagent (J.T. Baker Chemical Co.). Its refractive index value and density agreed with literature values.

ESTIMATED ERROR:

Soly: av. of at least 3 detns is reported (authors).

Temp: ±0.1°C

REFERENCES:

1. Mauger, J.W.; Paruta, A.N. Gerraughty, R.J. *J. Pharm. Sci.* 1972, *61(1)*, 94.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) 1-Butanol; $C_4H_{10}O$; [71-36-3]	Mauger, J. W.; Petersen, H.,Jr.; Alexander, K. S.; Paruta, A. N., *Drug Dev. Ind. Pharm.* 1977 *3(2)*, 163-83.
VARIABLES: Temperature	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

SOLUBILITY

t/°C	mg/ml	10^3X[a]	10^2 mol dm^{-3} [b]
25	4.31	1.48	1.61
30	5.30	1.83	1.98
37	6.53	2.26	2.44

[a] X = mole fraction

[b] calculated by compiler

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:
Screw-capped bottles with sulfisoxazole and BuOH were rotated in a const temp bath for 24 h. Samples were withdrawn through a pledget of glass wool into a pipet, which was wiped clean and allowed to drain into a volumetric flask. Soly was detd from absorbance and previously ascertained Beer's law plots detd on a Cary Model 16 spectrophotometer (1).

SOURCE AND PURITY OF MATERIALS:
Sulfisoxazole: lot 378067, Hoffman-LaRoche, Inc. M.p. agreed with literature values. 1-Butanol was purchased from Mallinckrodt Chem Works. Refractive index value and density agreed with literature values.

ESTIMATED ERROR:
Temp: ±0.1°C (authors).
Soly: an average of at least 3 detns is reported (authors).

REFERENCES:
1. Paruta, A. N.; Mauger, J. W.; Gerraughty, R. J., *J. Pharm. Sci.* 1972, *61*, 94.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) 1-Pentanol; $C_5H_{12}O$; [71-41-0]	Mauger, J. W.; Petersen, H., Jr.; Alexander, K. S.; Paruta, A. N. *Drug Dev. Ind. Pharm.* 1977, *3(2)*, 163-83.
VARIABLES: Temperature	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

SOLUBILITY

t/°C	mg/ml	10^3 X [a]	10^2 mol dm^{-3} [b]
25	2.61	1.06	0.98
30	3.20	1.30	1.20
37	3.95	1.62	1.48

[a] X = mole fraction

[b] calculated by compiler

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

The soly was detd by the method of Paruta et al. (1): Screw-capped bottles with sulfisoxazole in excess and 1-pentanol were rotated in a const temp bath for 24 h. Samples were withdrawn through a pledget of glass wool into a pipet, which was wiped clean and allowed to drain into a volumetric flask. Soly was detd from absorbance and previously ascertained Beer's law plots detd on a Cary Model 16 spectrophotometer.

SOURCE AND PURITY OF MATERIALS:

Sulfisoxazole: lot 378067, Hoffman-LaRoche, Inc. M.p. agreed with literature values. 1-Pentanol was purchased from Fisher Scientific Co. Refractive index valu and density agreed with literature values.

ESTIMATED ERROR:

Temp: ±0.1°C

Soly: Not specified.

REFERENCES:

1. Paruta, A. N.; Mauger, J. W.; Gerraughty, R. J. *J. Pharm. Sci.* 1972, *61*, 94.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) 1-Octanol; $C_8H_{16}O$; [111-87-5]	Mauger, J. W.; Petersen, H. Jr.; Alexander, K. S.; Paruta, A. N. *Drug Dev. Ind. Pharm.* 1977, *3(2)*, 163-83.
VARIABLES: Temperature	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

SOLUBILITY

t/°C	mg/ml	10^3 mol dm^{-3} [b]	10^3 X [a]
25	0.94	3.52	0.55
30	1.17	4.38	0.69
37	1.40	5.24	0.83

[a] X = mole fraction

[b] calculated by compiler

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

The soly was detd by the method of Paruta et al. (1): Screw-capped bottles with sulfisoxazole in excess and 1-Octanol were rotated in a const temp bath for 24 h. Samples were withdrawn through a pledget of glass wool into a pipet, which was wiped clean and allowed to drain into a volumetric flask. Soly was detd from absorbance and previously ascertained Beer's law plots detd on a Cary Model 16 spectrophotometer.

SOURCE AND PURITY OF MATERIALS:

Sulfisoxazole: lot 378067, Hoffman-LaRoche, Inc. M.p. agreed with the literature values. 1-Octanol was purchased from Fisher Scientific Co. Refractive index value and density agreed with literature values.

ESTIMATED ERROR:

Temp: ±0.1°C

Soly: not specified.

REFERENCES:

1. Paruta, A. N.; Mauger, J. W.; Gerraughty, R. J. *J. Pharm. Sci.* 1972, *61*, 94.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) 1-Decanol; $C_{10}H_{22}O$; [112-30-1]	Mauger, J. W.; Petersen, H. Jr.; Alexander, K. S.; Paruta, A. N., *Drug, Dev. Ind. Pharm.* 1977, *3(2)*, 163-83.
VARIABLES: Temperature	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

SOLUBILITY

t/°C	mg/ml	10^3 X [a]	10^3 mol dm^{-3} [b]
25	0.57	0.41	2.13
30	0.68	0.49	2.54
37	0.85	0.61	3.18

[a] X = mole fraction

b calculated by compiler

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

The soly was detd by the method of Paruta et al. (1): Screw-capped bottles with sulfisoxazole in excess and 1-decanol were rotated in a const temp bath for 24 h. Samples were withdrawn through a pledget of glass wool into a pipet, which was wiped clean and allowed to drain into a volumetric flask. Soly was detd from absorbance and previously ascertained Beer's law plots detd on a Cary Model 16 spectrophotometer.

SOURCE AND PURITY OF MATERIALS:

Sulfisoxazole: lot 378067. Hoffman-LaRoche, Inc. M.p. agreed with that of literature. 1-decanol was purchased from Matheson, Coleman and Bell. Refractive index value and density agreed with those reported in the literature.

ESTIMATED ERROR:

Temp: ±0.1°C (authors).

Soly: not specified.

REFERENCES:

1. Paruta, A. N.; Mauger, J. W.; Gerraughty, R. J. *J. Pharm. Sci.* 1972, *61*, 94.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Ethanol, 2-ethoxy-; $C_4H_{10}O_2$; [110-80-5]	Sunwoo, C.; Eisen, H. *J. Pharm. Sci.* 1971, *60*, 238-44.
VARIABLES: One temperature	**PREPARED BY:** R. Piekos

EXPERIMENTAL VALUES:

The mole fraction solubility of sulfisoxazole in 2-ethoxyethanol at 25°C is 0.0495 (13.4 g/100 g solution, compiler).

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

Soly was detd by the method reported by Restaino and Martin. Sulfisoxazole was assayed on a Coleman-Hitachi 124 double-beam spectrophotometer at 270 nm after diln of a sample with 95% alcohol or water.

SOURCE AND PURITY OF MATERIALS:

Sulfisoxazole (Hoffman-LaRoche Inc., Nutley, N.J.) was recrystd from warm alcohol. 2-Ethoxyethanol (Cellosolve solvent, Union Carbide, New York, N.Y.) was of industrial grade.

ESTIMATED ERROR:

Temp: ±1.0°C (authors).

Soly: the mean of 3 runs was given (authors).

REFERENCES:

1. Restaino, F. A.; Martin, A. N. *J. Pharm. Sci.* 1964, *53*, 636.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) 2-Pyrrolidinone, 1-ethenyl-,polymers (poly(vinyl pyrrolidone)); $(C_6H_9NO)_x$; [9003-39-8] K-15 (3) Ethanol; C_2H_6O; [64-17-5]	Sekikawa, H.; Nakano, M.; Arita, T. *Chem. Pharm. Bull.* 1978, *26(1)*,118-26.
VARIABLES: Temperature	**PREPARED BY:** R. Piekos

EXPERIMENTAL VALUES:

t/°C	M x 10^2 sulfisoxazole solubilized by 1M vinyl-pyrrolidone equivalent
10.0	7.52
20.0	8.89
30.0	10.4
40.0	12.5
50.0	14.5

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

After attaining equilibrium, sample solns were removed by a syringe and filtered quickly through a membrane filter (pore size 0.2 μ) and sulfisoxazole was assayed spectrophotometrically at 269 nm using a Hitachi Type 200-20 spectrophotometer. No significant absorbance was found for poly(vinyl pyrrolidone).

SOURCE AND PURITY OF MATERIALS:

Sulfisoxazole (Yamanouchi Pharmaceutical Co.) was of the Japanese Pharmacopeia IX grade. Poly(vinyl pyrrolidone) K-15 was from Daiichi Pure Chemicals Co., Tokyo. Abs EtOH was obtained by drying and distn of EtOH following the conventional procedures.

ESTIMATED ERROR:

Nothing specified

REFERENCES:

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Acetic acid, ethyl ester (ethyl acetate); $C_4H_8O_2$; [141-78-6]	Grady, L.T.; Hays, S.E.; King, R.H.; Klein, H.R.; Mader, W.J.; Wyatt, D.K.; Zimmerer, R.O., Jr. *J. Pharm. Sci.* 1973, *62(3)*, 456-64.
VARIABLES: One temperature: 25°C	PREPARED BY: R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in ethyl acetate at 25°C is 15.4 mg/g (5.76×10^{-2} mol kg^{-1}, compiler).

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
The phase solubility method was employed (1).	Sulfisoxazole contained 0.14% impurities and produced two spots on a thin-layer chromatogram. Purity of the ethyl acetate was not specified.
	ESTIMATED ERROR: Soly: ±0.3 mg/g (authors). Temp: not specified.
	REFERENCES: 1. *The National Formulary, 13th Ed., Mack Publishing Co., Easton, Pa., 1970, pp.* 789 and 839.

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (sulfisoxazole); $C_{11}H_{13}N_3O_3S$; [127-69-5] (2) Methane, trichloro- (chloroform); $CHCl_3$; [67-66-3]	Riess, W. *Intern. Congr. Chemotheraphy, Proc., 3rd, Stuttgart* 1963, *1*, 627-32.
VARIABLES: One temperature: 20°C	**PREPARED BY:** R. Piekos

EXPERIMENTAL VALUES:

Solubility of sulfisoxazole in chloroform at 20°C is 80 mg% (3.0×10^{-3} mol dm^{-3} solution, compiler).

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
Nothing specified	Nothing specified
	ESTIMATED ERROR: Nothing specified
	REFERENCES: