

Solubility of T.S.-Sol® 20/100 mg/ml in drinking water

T.S.-Sol® 20/100 mg/ml contains trimethoprim and sulfamethoxazole. Both components are poorly soluble in water. In addition, trimethoprim dissolves best in a slightly acidic solution, while sulfamethoxazole dissolves best in a basic solution. However, T.S.-Sol® contains special additives and is therefore well suitable for use via drinking water including application via dosing equipment.

Due to the complexity of the product, it is important to use T.S.-Sol® according to the following advice:

- Make sure drinking water pipes and storage vessels are clean.
- Do not use other products together with T.S.-Sol®. Especially acidic products will negatively affect the stability and solubility of T.S.-Sol®.
- For use with dosing equipment, use a concentration in the range:
 150 ml 250 ml T.S.-Sol® / liter of total stock solution.
 At this concentration, the solution is stable for 24 hours.
- Preferably use tap water with low hardness and a pH of between 5-8, to prepare the concentrated stock solution.
- Administer the daily required amount of T.S.-Sol® over a period of preferably 18 – 24 hours.

Application in a bulk tank

T.S.-Sol® can be added directly to the drinking water to be consumed. Depending on the animal species and drinking water intake, 1.5 to 2.5 liters of T.S.-Sol® 20/100 is usually dissolved in 1000 liters of drinking water.

Application using dosing equipment

The table on the back or page 2 of this flyer indicates which concentrations of concentrated stock solutions can be prepared under different conditions. This is based on the dosage according to the SPC and a distribution over 24 hours.

Swine (2.5 ml T.S.-Sol®/10 kg body weight/day)

Daily (24h) drinking water intake as a percen-	Concentration T.SSol® (product/liter pre-solution) at different dosing device settings							
tage of body weight	0,5%	1%	2%	3%	4%	5%		
5%			250 ml	167 ml	125 ml	100 ml		
10%		250 ml	125 ml					
15%		167 ml						
20%	250 ml	125 ml						

The green shaded options are preferred to obtain a stable stock solution (150 ml – 250 ml T.S.-Sol® / liter of total stock solution). The orange shaded options are more critical and stability can vary according to the water quality.

Chicken (3.75 ml T.S.-Sol®/10 kg body weight/day)

Daily (24h) drinking water intake as a percen- tage of body weight	Concentration T.SSol® (product/liter pre-solution) at different dosing device settings							
	0,5%	1%	2%	3%	4%	5%		
15%		250 ml	125 ml					
20%		188 ml						
25%	300 ml	150 ml						
30%	250 ml	125 ml						
35%	214 ml	107 ml						
40%	188 ml							

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