

Conductivity To TDS Conversion Factors

1. **Factor** - the conductivity to ppm TDS conversion factor. Multiply conductivity by this factor to get ppm TDS for the type of TDS reading needed.

2. **442** - a formulation that most closely represents the conductivity to ppm relationship, on average, for naturally occurring fresh water.

$$\text{Factor} = \text{Actual TDS} / \text{Actual Conductivity @ 25 } ^\circ\text{C}.$$

Conductivity at 25 °C	TDS KCl		TDS NaCl		TDS 442	
	ppm Value	Factor	ppm Value	Factor	ppm Value	Factor
84 µS	40.38	0.5048	38.04	0.4755	50.50	0.6563
447 µS	225.6	0.5047	215.5	0.4822	300.0	0.6712
1413 µS	744.7	0.5270	702.1	0.4969	1000	0.7078
1500 µS	757.1	0.5047	737.1	0.4914	1050	0.7000
8974 µS	5101	0.5685	4487	0.5000	7608	0.8478
12,880 µS	7447	0.5782	7230	0.5613	11,367	0.8825
15,000 µS	8759	0.5839	8532	0.5688	13,455	0.8970
80 mS	52,168	0.6521	48,384	0.6048	79,688	0.9961

Reference : Eutech Instruments Pte Ltd.
