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## POTENTIAL RELATIONSHIPS FOR SEVERAL DIFFERENT REFERENCE ELECTRODES AT 25 °C

Reference Electrode	Electrode potential with respect to SHE (mV)
Standard Hydrogen Electrode (SHE)	0
Saturated Calomel Electrode (SCE)	+241 (Ref 1,2)
Ag/AgCl Seawater	+250
Ag/AgCl 0.05M KCl	+300
Ag/AgCl 0.1M KCl	+288 (Ref 2)
Ag/AgCl 0.5M KCl	+240 (Ref 3)
Ag/AgCl 1M KCl	+236 (Ref 1)
Ag/AgCl 3M KCl	+210 (Ref 4)
Ag/AgCl 3.5M KCl	+205 (Ref 5)
Ag/AgCl Sat. KCl	+197 (Ref 1)
Cu/CuSO <sub>4</sub> Sat.	+316 (Ref 6)

### REFERENCES:

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- 4). EP Friis, JET Anderson, LL Madsen, N Bonander, Per Moller, J Ulstrup, *Electrochim. Acta*, (1998)
- 5). "Electrochemistry for Chemists, Second Edition", DT Sawyer, AJ Sobkowiak, J Roberts Jr., John Wiley & Sons, NY (1995)
- 6). "Reference Electrodes (Half-Cells)", J Lichtenstein, Materials Performance, Oct. 2001; Uhlig Corrosion Handbook

### SILVION REFERENCE ELECTRODES

>30 Years Service to the Corrosion Prevention Industry

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