

w water viscosity McCain correlation @model

$$(1) \quad \mu_w(T, p) = \mu_{w, \text{atm}}(T) \cdot (0.9994 + 4.0295 \cdot 10^{-5} p + 3.1062 \cdot 10^{-9} p^2)$$

$$(2) \quad \mu_{w, \text{atm}}(T) = (109.574 - 8.40564 S + 0.313314 S^2 + 8.72213 \cdot 10^{-5} S^3) \cdot T^A$$

$$(3) \quad A = -1.2166 + 2.63951 \cdot 10^{-2} S - 6.79461 \cdot 10^{-4} S^2 - 5.47119 \cdot 10^{-5} S^3 + 1.55586 \cdot 10^{-6} S^4$$

$\mu_w(T, p)$	Dynamic viscosity, cp at temperature T and pressure p
$\mu_{w, \text{atm}}(T)$	Dynamic viscosity, cp at temperature T and atmospheric pressure $p = 1 \text{ atm}$
T	Temperature, °F
p	Pressure, psi
S	Water salinity

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