

Vasquez-Beggs (1980) undersaturated oil viscosity o @model

Undersaturated oil viscosity	o	cp	$p > p_b$	$\mu_o(p,T) = \mu_{ob} \cdot \left(\frac{p}{p_b}\right)^m, \quad m = c_1 \cdot p^{c_2} \cdot \exp(c_3 + c_4 p)$ $c_1 = 2.6, \quad c_2 = 1.187, \quad c_3 = -11.513, \quad c_4 = -8.98 \cdot 10^{-5}$
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where

μ_{ob}	cp	oil viscosity at bubble point pressure p_b
p	psia	Fluid pressure
p_b	psia	Bubble point pressure

See Also

[Petroleum Industry / Upstream / Petroleum Engineering / Subsurface E&P Disciplines / Reservoir Engineering \(RE\) / PVT correlations / Oil correlations](#)

[[Vasquez-Beggs \(1980\) oil correlations](#)]

References

Vasquez, M., and H.D. Beggs. "Correlations for Fluid Physical Property Prediction." J Pet Technol 32 (1980): 968–970, doi.org/10.2118/6719-PA