

Bergman-Sutton (2007) saturated oil viscosity o @model

Saturated oil viscosity	o	cp	p p b	$\mu_{ob}(R_s) = A \cdot (\mu_{od})^B, \quad A = [1 + (R_s/c_1)^{c_2}]^{-1}, \quad B = c_3 + (1 - c_3) \cdot [1 + (R_s/c_4)^{c_5}]^{-1}$ $c_1 = 344.198, \quad c_2 = 0.855344, \quad c_3 = 0.382323, \quad c_4 = 567.953, \quad c_5 = 0.819326$
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where

μ_{od}	cp	Dead oil viscosity
R_s	scf/stb	Solution Gas Oil Ratio

See Also

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

[[Bergman-Sutton \(2006-2009\) oil viscosity correlations](#)]

References

Bergman, David F., and Robert P. Sutton. "An Update to Viscosity Correlations for Gas-Saturated Crude Oils." Paper presented at the SPE Annual Technical Conference and Exhibition, Anaheim, California, U.S.A., November 2007. doi: <https://doi.org/10.2118/110195-MS>