

Petrosky–Farshad (1995) dead oil viscosity o @model

Dead oil viscosity	od	cp	p = 1 atm	$\mu_{od}(T) = c_1 \cdot T^{c_2} \cdot \left[\log_{10}(\gamma_{API}) \right]^X, \quad X = c_3 \cdot \log_{10}(T) + c_4$ $c_1 = 2.3511 \cdot 10^7, \quad c_2 = -2.10255 \quad c_3 = 4.59388, \quad c_4 = -22.82792$
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where

γ_{API}	°API	Oil API gravity
T	°F	Fluid temperature

See Also

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

[[Petrosky–Farshad \(1993 - 1995\) oil correlations](#)]

References

Petrosky, G.E., and F.F. Farshad. "Viscosity Correlations for Gulf of Mexico Crude Oils." Paper presented at the SPE Production Operations Symposium, Oklahoma City, Oklahoma, April 1995. doi: <https://doi.org/10.2118/29468-MS>