

Glaso (1980) bubble point pressure Pb @model

Bubble point pressure	p b	psia	$\log_{10}(p_b) = c_1 + c_2 \log_{10}(p_b^*) + c_3 [\log_{10}(p_b^*)]^2$, $p_b^* = (R_{sb}/\gamma_g)^{c_4} \gamma_{API}^{c_5} T^{c_6}$ $c_1 = 1.7669, c_2 = 1.7447, c_3 = -0.30218, c_4 = 0.816, c_5 = -0.989$ Black Oil: $c_6 = 0.172$, Volatile Oil: $c_6 = 0.130$
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where

p	psia	Fluid pressure
T	°F	Initial formation temperature
γ_{API}	°API	Oil API gravity
γ_o	frac	Oil specific gravity
γ_g	frac	Gas specific gravity
R_{sb}	scf/stb	Maximum Gas Solubility

See Also

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[[Glaso \(1980\) oil correlations](#)]

References

Glaso, Oistein. "Generalized Pressure-Volume-Temperature Correlations." J Pet Technol 32 (1980): 785–795. doi: <https://doi.org/10.2118/8016-PA>