

Vaporized Oil Ratio = Rv

The quantitative measure of [volatile oil](#) in [wet gas](#):

$$R_v = \frac{V_{Og}^{\circ}}{V_{Gg}^{\circ}} = \frac{m_{Og}}{m_{Gg}} \cdot \frac{\rho_G^{\circ}}{\rho_O^{\circ}}$$

where

$V_{Og}^{\circ} = \frac{m_{Og}}{\rho_O^{\circ}}$	STP volume of dead oil component of mass m_{Og} and STP density ρ_O°
$V_{Gg}^{\circ} = \frac{m_{Gg}}{\rho_G^{\circ}}$	STP volume of natural gas component of mass m_{Gg} and STP density ρ_G°

$R_v(p, T)$ is a [cross-phase exchange coefficient](#) and a function of [pressure](#) and [temperature](#)

See Also

[Petroleum Industry](#) / [Upstream](#) / [Subsurface E&P Disciplines](#) / [Fluid \(PVT\) Analysis](#)

[[Vaporized Oil Ratio Correlations @model](#)]

[[Cross-phase fluid exchange](#) / [Cross-phase exchange coefficient](#)]

[[Solution GOR \(Rs\)](#)]