

# Oil-gas relative permeability (krog)

Relative permeability to oil percolation while sweeping by gas and no presence of free reservoir water:

$$(1) \quad k_{rog}(s_w) = \frac{k_o(s_g)}{k_a}$$

where

$k_g(s)$	oil permeability in 2-phase Oil + Gas reservoir
$k_a$	absolute permeability
{ $s_o, s_g$ }	oil and gas reservoir saturation: $s_o + s_g = 1$

## See also

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