

Gas Mobility

A property characterising agility of the [gas](#) under [pressure](#) gradient with account of [reservoir permeability](#) and [dynamic fluid viscosity](#):

(1)
$$M_g = \frac{k_g}{\mu_g} = k_{air} \cdot M_{rg}$$

where

k_g	formation permeability to gas
μ_g	dynamic viscosity of gas
k_{air}	absolute permeability to air
k_{rg}	relative formation permeability to gas
$M_{rg} = \frac{k_{rg}}{\mu_g}$	relative gas mobility

See also

[Physics](#) / [Fluid Dynamics](#) / [Percolation](#)

[Petroleum Industry](#) / [Upstream](#) / [Subsurface E&P Disciplines](#) / [Reservoir Flow Simulation](#)

[[Field Study & Modelling](#)] [[Phase Mobility](#)] [[Relative Phase mobilities](#)]