

Water Mobility

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

(1)
$$M_w = \frac{k_w}{\mu_w} = k_{air} \cdot M_{rw}$$

where

k_w	formation permeability to water
μ_w	dynamic viscosity of water
k_{air}	absolute permeability to air
k_{rw}	relative formation permeability to water
$M_{rw} = \frac{k_{rw}}{\mu_w}$	relative water 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](#)]