Specific gravity

@wikipedia

Synonym: Relative Density = Specific gravity

Dimensionless ratio of the actual fluid density ρ to the fluid density of a reference substance ρ_{ref}, both taken at reference conditions (equal or close to STP, which should be specified individually):

(1) $$SG = \frac{\rho}{\rho_{\text{ref}}}$$

The selection of reference substance and the corresponding value of ρ_{ref} depends on the context.

For fluids which are liquid at STP this is usually a distilled water and for fluids which are gaseous at STP this is usually a dry air:

Liquid specific gravity γ_L	**Gas specific gravity** γ_g
$\rho_{\text{ref}} = \rho_{\text{H}_2\text{O}}$	$\rho_{\text{ref}} = \rho_{\text{air}}$
$\gamma_L = \frac{\rho_L}{\rho_{H_2O}}$	$\gamma_g = \frac{\rho_g}{\rho_{\text{air}}}$

See also

Natural Science / Physics / Fluid density

[API gravity][Oil specific gravity (o)][Gas specific gravity ($_g$)][Liquid specific gravity ($_L$)]