

Rayleigh number = Ra

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Dimensionless quantity characterising the development of Natural Thermal Convection:

(1)
$$Ra = Gr \cdot Pr = \frac{g \beta \Delta T L^3}{\nu \cdot a}$$

where

ΔT	Temperature gradient across Natural Thermal Convection	ν	Kinematic viscosity of the fluid
β	Thermal expansion coefficient of the fluid	a	Thermal Diffusivity of the fluid
L	Characteristic length of Natural Thermal Convection	g	Standard gravity constant
$Pr = \frac{\nu}{a}$	Prandtl number	$Gr = \frac{g \beta \Delta T L^3}{\nu^2}$	Grashof number

See also

Physics / Thermodynamics / Heat Transfer

[Dimensionless Heat Transfer Numbers] [Prandtl number] [Grashof number]