

## 9.3 Physical Constants

Constant	Value
Light speed in vacuum	$c = 2,997.10^8 \text{ m.s}^{-1}$
Boltzmann's constant	$k = 1,380.10^{-23} \text{ J.K}^{-1}$
Hydrogen mass	$m_H = 1,673.10^{-27} \text{ kg}$
Proton mass	$m_p = 1,672.10^{-27} \text{ kg}$
Elementary charge	$e = 1,602.10^{-19} \text{ C}$
Planck's constant	$h = 6,626.10^{-34} \text{ J.s}$
Avogadro's number	$N_A = 6,022.10^{23} \text{ mol}^{-1}$
Gass constant	$R = 8,314. \text{mol}^{-1} \text{ K}^{-1}$
Faraday's constant	$F = 9,648.10^4 \text{ C.mol}^{-1}$
Gravitation constant	$6,672.10^{-11} \text{ N.m}^2.\text{kg}^{-2}$