



Universal Constants Menu

This menu adds a listing of all the CODATA Fundamental Physical Constants from “<https://physics.nist.gov/cuu/Constants/>” website.

Touch any of the listed constants to enter its value into the calculator. Use the “ Search” field to filter the constants that contains the letter or word typed into it.

Close 

alpha particle-electron mass ratio
 $m_{\alpha} / m_e = 7294.29954142$

alpha particle mass
 $m_{\alpha} = 6.6446573357e-27 \text{ kg}$

alpha particle mass energy equivalent
 $m_{\alpha} \cdot c^2 = 5.9719201914e-10 \text{ J}$

alpha particle mass energy equivalent in MeV
 $m_{\alpha} \cdot c^2 = 3727.3794066 \text{ MeV}$

alpha particle mass in u
 $m_{\alpha} = 4.001506179127 \text{ u}$

alpha particle molar mass
 $M(\alpha), M_{\alpha} = \frac{4.0015061777e}{-3} \text{ kg/mol}$

alpha particle-proton mass ratio
 $m_{\alpha} / m_p = 3.97259969009$

alpha particle relative atomic mass
 $A_r(\alpha) = 4.001506179127$

Angstrom star
 $\text{\AA}^* = 1.00001495e-10 \text{ m}$

atomic mass constant
 $m_u = 1.66053906660e-27 \text{ kg}$

