The Lennard-Jones parameters for argon are

Lennard-Jones cut off = 3.2

* Distance, in real units

 

$$r=3.2 x (3.4 x 10^{-8})$$

$$r=1.09 x 10^{-7 }cm^{-1}$$

* Well depth, in kJ mol-1

 

* $=\frac{120 x (1.38 x 10^{-23}) }{1000}x (6.022x10^{23})$
* $= 0.998 kJ mol^{-1}$
* Temperature, in real units



$$T= 1.5 x \frac{⋴}{k\_{B}}$$