

Table A.2: Values of the Universal Gas Constant

<u>Values of R</u>	<u>Units</u>
8.314	$\text{J mol}^{-1} \text{K}^{-1}$
8.314	$\text{m}^3 \text{Pa mol}^{-1} \text{K}^{-1}$
83.14	$\text{cm}^3 \text{bar mol}^{-1} \text{K}^{-1}$
8,314	$\text{cm}^3 \text{kPa mol}^{-1} \text{K}^{-1}$
82.06	$\text{cm}^3 \text{atm mol}^{-1} \text{K}^{-1}$
62,356	$\text{cm}^3 \text{torr mol}^{-1} \text{K}^{-1}$
1.987	$\text{cal mol}^{-1} \text{K}^{-1}$
1.986	$\text{Btu lbmol}^{-1} \text{R}^{-1}$
0.7302	$\text{ft}^3 \text{atm lbmol}^{-1} \text{R}^{-1}$
10.73	$\text{ft}^3 \text{psia lbmol}^{-1} \text{R}^{-1}$
1,545	$\text{ft lb}_f \text{lbmol}^{-1} \text{R}^{-1}$