

Symbol	Description	Standard value	Units
$g$	Gravitational acceleration	9.81	$\text{m s}^{-2}$
$\rho$	Density of ice	910	$\text{kg m}^{-3}$
$R$	Gas constant	8.3145	$\text{kg m}^2 \text{s}^{-2} \text{K}^{-1} \text{mol}^{-1}$
$\rho_w$	Density of freshwater	1000	$\text{kg m}^{-3}$
$\rho_o$	Density of ocean water	1028	$\text{kg m}^{-3}$
$c$	Heat capacity of ice	2009	$\text{J kg}^{-1} \text{K}^{-1}$
$k$	Thermal conductivity of ice	2.1	$\text{W m}^{-1} \text{K}^{-1}$
$L$	Latent heat of fusion of water	$3.35 \times 10^5$	$\text{J kg}^{-1}$
$c_t$	Pressure melt coefficient	$7.5 \times 10^{-8}$	$\text{K Pa}^{-1}$
$c_w$	Heat capacity of water	$4.22 \times 10^3$	$\text{J kg}^{-1} \text{K}^{-1}$