

$$9/5 C + 32 = F$$

Molar Heat Capacity

Substance	C	Substance	C
Water (Liquid)	75.3 J / K mol	Helium	25.2 J / K mol
Water (Gas)	36.8 J / K mol	Hydrogen	28.8 J / K mol
Water (Solid)	38.09 J / K mol	Iron	25.1 J / K mol
Lead (Solid)	26.7 J / K mol	Aluminum	24.2 J / K mol
Lead (Liquid)	27.4 J / K mol	Tungsten	24.2 J / K mol
Nitrogen (gas)	29.1 J / K mol	Copper	24.5 J / K mol
Nitrogen (liquid)	57.2 J / K mol	Octane	254 J / K mol
Silver	25.3 J / K mol	NaCl	50.5 J / K mol
Cobalt	50.6 J / K mol	Nickel	26.1 J / K mol
Silicon	19.7 J / K mol	Zinc	25.2 J / K mol
Cadmium	25.6 J / K mol	Gold	25.42 J / K mol

Specific Heat Capacity

Substance	c	Substance	c
Water (Liquid)	4.183 J/K g	Helium	5.193 J/K g
Water (Gas)	2.080 J/K g	Hydrogen	14.30 J/K g
Water (Solid)	2.05 J/K g	Iron	0.449 J/K g
Lead (Solid)	0.129 J/K g	Aluminum	0.891 J/K g
Lead (Liquid)	0.132 J/K g	Tungsten	0.132 J/K g
Nitrogen (gas)	1.04 J/K g	Copper	0.385 J/K g
Nitrogen (liquid)	2.04 J/K g	Octane	2.22 J/K g
Silver	0.233 J/K g	NaCl	0.864 J/K g
Cobalt	0.858 J/K g	Nickel	0.444 J/K g
Silicon	0.701 J/K g	Zinc	0.388 J/K g
Cadmium	0.228 J/K g	Gold	0.129 J/K g

	Melting Point	Heat Of Fusion	Boiling Point	Heat of Vaporization
Water	273 K	6010 J/mol	373 K	40,700 J/mol
Nitrogen	63 K	719 J/mol	77 K	5590 J/mol
Lead	601 K	4770 J/mol	2023 K	177,800 J/mol