

Energy & States of Matter

SPECIFIC HEAT

Substance	c (J/kg·K)	Substance	c (J/kg·K)
Water (liquid)	4186	Water (Steam)	1870
Ammonia	2060	Carbon	709
Aluminum	897	Copper	385
Gold	129	Silver	234
Lead	129	Mercury	140

LATENT HEAT

Substance	Formula	$\Delta H^\circ_{\text{vap}}$ (J/g)	$\Delta H^\circ_{\text{fus}}$ (J/g)
Water	H ₂ O	2259.2	333.6
Ethanol	C ₂ H ₅ OH	837.9	107.2
Methanol	CH ₃ OH	1098.6	100.5
Ammonia	NH ₃	1368.1	327.0