

# Mercury, diethyl-

**Other names:** Diethylmercury  
(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>Hg

**Inchi:** InChI=1S/2C<sub>2</sub>H<sub>5</sub>.Hg/c2\*1-2;/h2\*1H<sub>2</sub>,2H<sub>3</sub>;

**InchiKey:** SPIUPAOJDZNUJH-UHFFFAOYSA-N

**Formula:** C<sub>4</sub>H<sub>10</sub>Hg

**SMILES:** CC[Hg]CC

**Mol. weight [g/mol]:** 258.71

**CAS:** 627-44-1

## Physical Properties

Property code	Value	Unit	Source
chl	-3103.30 ± 4.20	kJ/mol	NIST Webbook
chs	-3075.20	kJ/mol	NIST Webbook
hf	144.90 ± 4.50	kJ/mol	NIST Webbook
hf	77.00 ± 5.60	kJ/mol	NIST Webbook
hf	76.00 ± 5.50	kJ/mol	NIST Webbook
hf	116.80	kJ/mol	NIST Webbook
hf	75.00 ± 2.30	kJ/mol	NIST Webbook
hf	72.00 ± 1.90	kJ/mol	NIST Webbook
hfl	31.20 ± 5.20	kJ/mol	NIST Webbook
hfl	32.20 ± 5.30	kJ/mol	NIST Webbook
hfl	30.20 ± 1.50	kJ/mol	NIST Webbook
hfl	27.20 ± 0.80	kJ/mol	NIST Webbook
hfl	100.10 ± 4.20	kJ/mol	NIST Webbook
hfs	72.00	kJ/mol	NIST Webbook
hsub	44.80 ± 1.70	kJ/mol	NIST Webbook
hvap	44.80 ± 1.70	kJ/mol	NIST Webbook
ie	8.45	eV	NIST Webbook
ie	8.90	eV	NIST Webbook
ie	8.50 ± 0.10	eV	NIST Webbook
tt	181.45 ± 0.02	K	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	182.30	J/mol×K	298.15	NIST Webbook
hfust	10.50	kJ/mol	181.45	NIST Webbook
hfust	10.50	kJ/mol	181.50	NIST Webbook
sfust	57.87	J/mol×K	181.45	NIST Webbook

## Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C627441&Units=SI>

## Legend

<b>chl:</b>	Standard liquid enthalpy of combustion
<b>chs:</b>	Standard solid enthalpy of combustion
<b>cpl:</b>	Liquid phase heat capacity
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfl:</b>	Liquid phase enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<b>sfust:</b>	Entropy of fusion at a given temperature
<b>tt:</b>	Triple Point Temperature

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