

# Mercury, diphenyl-

<b>Other names:</b>	Benzene, mercuriodi- Diphenylmercury
<b>Inchi:</b>	InChI=1S/2C6H5.Hg/c2*1-2-4-6-5-3-1;/h2*1-5H;
<b>InchiKey:</b>	HWMTUNCVVYPZH-Z-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>12</sub> H <sub>10</sub> Hg
<b>SMILES:</b>	c1ccc([Hg]c2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	354.80
<b>CAS:</b>	587-85-9

## Physical Properties

Property code	Value	Unit	Source
chs	-6434.20 ± 7.90	kJ/mol	NIST Webbook
chs	-6431.20 ± 7.50	kJ/mol	NIST Webbook
chs	-6549.20	kJ/mol	NIST Webbook
hf	380.40 ± 6.70	kJ/mol	NIST Webbook
hf	398.60 ± 6.40	kJ/mol	NIST Webbook
hf	412.40 ± 1.50	kJ/mol	NIST Webbook
hf	392.70 ± 7.70	kJ/mol	NIST Webbook
hf	395.70 ± 8.10	kJ/mol	NIST Webbook
hf	394.20 ± 5.70	kJ/mol	NIST Webbook
hf	510.70	kJ/mol	NIST Webbook
hfs	267.60 ± 6.60	kJ/mol	NIST Webbook
hfs	281.40 ± 5.60	kJ/mol	NIST Webbook
hfs	282.90 ± 8.10	kJ/mol	NIST Webbook
hfs	397.90	kJ/mol	NIST Webbook
hfs	285.80 ± 6.30	kJ/mol	NIST Webbook
hfs	279.90 ± 7.70	kJ/mol	NIST Webbook
hfs	299.60 ± 1.30	kJ/mol	NIST Webbook
hsub	112.80 ± 0.80	kJ/mol	NIST Webbook
hsub	112.80 ± 0.80	kJ/mol	NIST Webbook
ie	8.30 ± 0.03	eV	NIST Webbook
ie	9.40 ± 0.20	eV	NIST Webbook
ie	8.32	eV	NIST Webbook
tf	397.65 ± 2.00	K	NIST Webbook

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	225.50	J/mol×K	298.50	NIST Webbook

## Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C587859&Units=SI>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>cps:</b>	Solid phase heat capacity
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>ie:</b>	Ionization energy
<b>tf:</b>	Normal melting (fusion) point

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