

Mercury, bromomethyl-

Other names:	Bromomercuriomethane Bromomethylmercury CH3HgBr Methylmercuric bromide Methylmercury bromide
Inchi:	InChI=1S/CH3.BrH.Hg/h1H3;1H;/q;;+1/p-1
InchiKey:	ZDHHIJSLJCLMPX-UHFFFAOYSA-M
Formula:	CH3BrHg
SMILES:	C[Hg]Br
Mol. weight [g/mol]:	295.53
CAS:	506-83-2

Physical Properties

Property code	Value	Unit	Source
hf	-18.60 ± 2.90	kJ/mol	NIST Webbook
hfs	-86.40 ± 2.40	kJ/mol	NIST Webbook
hsub	67.80 ± 1.70	kJ/mol	NIST Webbook
ie	10.60 ± 0.20	eV	NIST Webbook
ie	10.16	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	67.60 ± 1.60	kJ/mol	277.50	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	2.09489e+01

Coeff. B	-8.12813e+03
Temperature range (K), min.	393.40
Temperature range (K), max.	519.79

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C506832&Units=SI>

The Yaws Handbook of Vapor Pressure:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

Legend

hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
ie:	Ionization energy
pvap:	Vapor pressure

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