

Methylmercuric iodide

Other names:	CH ₃ HgI Iodomethylmercury Mercury, iodomethyl- Methyliodomercury Methylmercury iodide Methylmercury(II) iodide
Inchi:	InChI=1S/CH ₃ .Hg.II/h1H3;;1H/q;+1;/p-1
InchiKey:	JVDIOYBHEYUIBM-UHFFFAOYSA-M
Formula:	CH ₃ HgI
SMILES:	C[Hg]I
Mol. weight [g/mol]:	342.53
CAS:	143-36-2

Physical Properties

Property code	Value	Unit	Source
hf	21.60 ± 2.50	kJ/mol	NIST Webbook
hfs	-43.70 ± 1.90	kJ/mol	NIST Webbook
hsub	65.30 ± 1.70	kJ/mol	NIST Webbook
ie	9.40 ± 0.20	eV	NIST Webbook
ie	9.25	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	65.30 ± 1.60	kJ/mol	276.50	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$

Coeff. A	1.98669e+01
Coeff. B	-7.81428e+03
Temperature range (K), min.	399.11
Temperature range (K), max.	536.86

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C143362&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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