

Manganocene

Other names:	Manganese, bis(«eta»5-cyclopentadienyl) Manganese dicyclopentadienide
Inchi:	InChI=1S/2C5H5.Mn/c2*1-2-4-5-3-1;/h2*1-5H;
InchiKey:	QROCSKKOEBOLQO-UHFFFAOYSA-N
Formula:	C10H10Mn
SMILES:	C12C3C4C5C1[Mn]23451678C2C1C6C7C28
Mol. weight [g/mol]:	185.12
CAS:	73138-26-8

Physical Properties

Property code	Value	Unit	Source
chs	-6027.90 ± 2.10	kJ/mol	NIST Webbook
hf	276.90 ± 3.00	kJ/mol	NIST Webbook
hf	273.70 ± 2.60	kJ/mol	NIST Webbook
hfs	201.20 ± 2.50	kJ/mol	NIST Webbook
hfs	198.00 ± 2.00	kJ/mol	NIST Webbook
hsub	75.70 ± 1.70	kJ/mol	NIST Webbook
ie	6.18	eV	NIST Webbook
ie	6.55	eV	NIST Webbook
ie	7.30 ± 0.10	eV	NIST Webbook
ie	6.26	eV	NIST Webbook
ie	6.26	eV	NIST Webbook
ss	251.50	J/molxK	NIST Webbook
ss	251.40	J/molxK	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	208.40	J/molxK	298.15	NIST Webbook
cps	208.50	J/molxK	298.15	NIST Webbook

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C73138268&Units=SI>

Legend

chs:	Standard solid enthalpy of combustion
cps:	Solid phase heat capacity
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
ie:	Ionization energy
ss:	Solid phase molar entropy at standard conditions

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