Germane, tetraphenyl-

Other names:	Tetraphenylgermane
	Tetraphenylgermanium
Inchi:	InChI=1S/C24H20Ge/c1-5-13-21(14-6-1)25(22-15-7-2-8-16-22,23-17-9-3-10-18-23)24-19
InchiKey:	ILEXMONMGUVLRM-UHFFFAOYSA-N
Formula:	C24H20Ge
SMILES:	c1ccc([Ge](c2ccccc2)(c2ccccc2)c2ccccc2)cc1
Mol. weight [g/mol]:	381.06
CAS:	1048-05-1

Physical Properties

Property code	Value	Unit	Source
chs	-13712.60 ± 4.20	kJ/mol	NIST Webbook
chs	-13286.30 ± 8.40	kJ/mol	NIST Webbook
chs	-13139.00 ± 14.00	kJ/mol	NIST Webbook
hf	438.00 ± 15.00	kJ/mol	NIST Webbook
hf	1028.00 ± 7.00	kJ/mol	NIST Webbook
hf	602.00 ± 10.00	kJ/mol	NIST Webbook
hfs	444.80 ± 9.20	kJ/mol	NIST Webbook
hfs	871.10 ± 5.60	kJ/mol	NIST Webbook
hfs	281.00 ± 14.00	kJ/mol	NIST Webbook
hsub	156.90 ± 4.20	kJ/mol	NIST Webbook
hsub	156.90 ± 4.20	kJ/mol	NIST Webbook
hsub	168.60 ± 8.40	kJ/mol	NIST Webbook
ie	8.95	eV	NIST Webbook
ie	8.10	eV	NIST Webbook
log10ws	-19.66		Crippen Method
logp	3.064		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	148.60	kJ/mol	441.00	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1048051&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient