Diethynyldiphenylgermane

Inchi: InChI=1S/C16H12Ge/c1-3-17(4-2,15-11-7-5-8-12-15)16-13-9-6-10-14-16/h1-2,5-14H
InchiKey: KKMYEVIOFAXXRB-UHFFFAOYSA-N
Formula: C16H12Ge
SMILES: C#C[Ge](C#C)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 276.91
CAS: 1675-59-8

Physical Properties

Property code	Value	Unit	Source
chs	-9222.00 ± 8.40	kJ/mol	NIST Webbook
hf	805.80	kJ/mol	NIST Webbook
hfs	671.90 ± 8.90	kJ/mol	NIST Webbook
hsub	133.90	kJ/mol	NIST Webbook
log10ws	-9.92		Crippen Method
logp	1.594		Crippen Method
ss	356.90	J/mol×K	NIST Webbook
ss	358.90	J/mol×K	NIST Webbook
tt	319.94 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	305.40	J/mol×K	298.15	NIST Webbook
cps	307.10	J/mol×K	300.00	NIST Webbook
hfust	20.10	kJ/mol	167.00	NIST Webbook
hfust	20.10	kJ/mol	319.94	NIST Webbook
hfust	20.10	kJ/mol	319.94	NIST Webbook
hvapt	110.80	kJ/mol	321.00	NIST Webbook
sfust	62.80	J/mol×K	319.94	NIST Webbook
sfust	62.80	J/mol×K	319.94	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1675598&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
sfust:	Entropy of fusion at a given temperature
ss:	Solid phase molar entropy at standard conditions
tt:	Triple Point Temperature