3-Hexene, 3,4-dimethyl, perfluoro-

Inchi: InChI=1S/C10HF19/c11-2(6(17,18)19)1(5(14,15)16)4(3(12)13,7(20,21)9(24,25)26)8(22,2
InchiKey: ADJBAYXUHDZVRL-OWOJBTEDSA-N
Formula: C10HF19
SMILES: FC(=C(C(F)(F)F)C(C(F)F)(C(F)(F)C(F)(F)F)C(F)(F)C(F)(F)F)C(F)(F)F
Mol. weight [g/mol]: 482.08

Physical Properties

Property code	Value	Unit	Source
gf	-3587.51	kJ/mol	Joback Method
hf	-3944.71	kJ/mol	Joback Method
hfus	22.34	kJ/mol	Joback Method
hvap	12.99	kJ/mol	Joback Method
log10ws	-7.56		Crippen Method
logp	6.981		Crippen Method
mcvol	181.090	ml/mol	McGowan Method
pc	1248.61	kPa	Joback Method
rinpol	322.00		NIST Webbook
rinpol	322.00		NIST Webbook
tb	395.20	K	Joback Method
tc	504.97	K	Joback Method
tf	182.61	K	Joback Method
vc	0.837	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.04	J/mol×K	395.20	Joback Method
cpg	475.61	J/mol×K	413.50	Joback Method
cpg	488.40	J/mol×K	431.79	Joback Method
cpg	500.43	J/mol×K	450.09	Joback Method
cpg	511.73	J/mol×K	468.38	Joback Method
cpg	522.33	J/mol×K	486.68	Joback Method
cpg	532.25	J/mol×K	504.97	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R24485&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume