2-Hexene, 4-ethyl, 3,4-dimethyl, perfluoro-

Inchi: InChI=1S/C10F20/c11-2(5(15,16)17)1(4(12,13)14)3(8(22,23)24,6(18,19)9(25,26)27)7(20
InchiKey: WUPIJZMVJFXUOO-OWOJBTEDSA-N
Formula: C10F20
SMILES: FC(=C(C(F)(F)F)C(C(F)(F)F)(C(F)(F)C(F)(F)F)C(F)(F)C(F)(F)F)C(F)(F)F
Mol. weight [g/mol]: 500.08

Physical Properties

Property code	Value	Unit	Source
gf	-3777.04	kJ/mol	Joback Method
hf	-4144.29	kJ/mol	Joback Method
hfus	21.53	kJ/mol	Joback Method
hvap	11.26	kJ/mol	Joback Method
log10ws	-7.91		Crippen Method
logp	7.279		Crippen Method
mcvol	182.860	ml/mol	McGowan Method
pc	1219.14	kPa	Joback Method
rinpol	409.00		NIST Webbook
rinpol	409.00		NIST Webbook
tb	391.68	K	Joback Method
tc	500.14	K	Joback Method
tf	200.62	K	Joback Method
vc	0.850	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	470.53	J/mol×K	391.68	Joback Method
cpg	484.48	J/mol×K	409.76	Joback Method
cpg	497.59	J/mol×K	427.83	Joback Method
cpg	509.91	J/mol×K	445.91	Joback Method
cpg	521.45	J/mol×K	463.99	Joback Method
cpg	532.26	J/mol×K	482.07	Joback Method
cpg	542.35	J/mol×K	500.14	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=R24471&Units=SI

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