2,6,10,14-Tetramethyl-9-(3-methyl-pent-4-enyl)-pe

Other names: Pentadeca-5,9,13-triene, 2,6,10,14-tetramethyl-7-(3-methylpent-4-enyl)
Inchi: InChI=1S/C25H44/c1-9-22(6)16-18-25(24(8)15-11-13-21(4)5)19-17-23(7)14-10-12-20(2)
InchiKey: MKKVQZKPCITHAF-BXPHKCKFSA-N
Formula: C25H44
SMILES: C=CC(C)CCC(CC=C(C)CCC=C(C)C)C(C)=CCCC(C)C
Mol. weight [g/mol]: 344.62

Physical Properties

Property code	Value	Unit	Source
gf	455.15	kJ/mol	Joback Method
hf	-127.45	kJ/mol	Joback Method
hfus	45.33	kJ/mol	Joback Method
hvap	69.52	kJ/mol	Joback Method
log10ws	-8.98		Crippen Method
logp	8.670		Crippen Method
mcvol	345.910	ml/mol	McGowan Method
pc	874.80	kPa	Joback Method
rinpol	2146.00		NIST Webbook
rinpol	2134.00		NIST Webbook
rinpol	2134.00		NIST Webbook
rinpol	2138.00		NIST Webbook
rinpol	2143.00		NIST Webbook
rinpol	2146.00		NIST Webbook
rinpol	2152.00		NIST Webbook
ripol	2221.00		NIST Webbook
ripol	2221.00		NIST Webbook
ripol	2227.00		NIST Webbook
tb	778.88	K	Joback Method
tc	966.44	K	Joback Method
tf	267.63	K	Joback Method
vc	1.341	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1053.63	J/mol×K	778.88	Joback Method
cpg	1075.61	J/mol×K	810.14	Joback Method
cpg	1096.54	J/mol×K	841.40	Joback Method
cpg	1116.50	J/mol×K	872.66	Joback Method
cpg	1135.60	J/mol×K	903.92	Joback Method
cpg	1153.89	J/mol×K	935.18	Joback Method
cpg	1171.47	J/mol×K	966.44	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=R398051&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume