2,6,10,14-Tetramethyl-7-(3-methyl-pent-4-enyl)-pe

Inchi: InChI=1S/C25H42/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: YAGNVGRVYRNCEF-NSXTUZQOSA-N
Formula: C25H42
SMILES: C=CC(C)CCC(CCC(C)=CCC=C(C)C)=C(C)CCC=C(C)C
Mol. weight [g/mol]: 342.60

Physical Properties

Property code	Value	Unit	Source
gf	523.15	kJ/mol	Joback Method
hf	-19.25	kJ/mol	Joback Method
hfus	49.96	kJ/mol	Joback Method
hvap	70.42	kJ/mol	Joback Method
log10ws	-9.31		Crippen Method
logp	8.734		Crippen Method
mcvol	341.610	ml/mol	McGowan Method
pc	899.10	kPa	Joback Method
rinpol	2201.00		NIST Webbook
tb	783.68	K	Joback Method
tc	974.87	K	Joback Method
tf	264.63	K	Joback Method
vc	1.335	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1027.81	J/mol×K	783.68	Joback Method
cpg	1049.29	J/mol×K	815.55	Joback Method
cpg	1069.79	J/mol×K	847.41	Joback Method
cpg	1089.40	J/mol×K	879.28	Joback Method
cpg	1108.24	J/mol×K	911.14	Joback Method
cpg	1126.39	J/mol×K	943.01	Joback Method
cpg	1143.95	J/mol×K	974.87	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=R500799&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