2,6,14-Trimethyl-10-methylene-9-(3-methylene-pen

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: FAPXABWJTYQDGU-HAVVHWLPSA-N
Formula: C25H44
SMILES: C=CC(=C)CCC(CC=C(C)CCCC(C)C)C(=C)CCCC(C)C
Mol. weight [g/mol]: 344.62

Physical Properties

Property code	Value	Unit	Source
gf	470.39	kJ/mol	Joback Method
hf	-111.03	kJ/mol	Joback Method
hfus	42.37	kJ/mol	Joback Method
hvap	68.27	kJ/mol	Joback Method
log10ws	-8.98		Crippen Method
logp	8.670		Crippen Method
mcvol	345.910	ml/mol	McGowan Method
pc	864.54	kPa	Joback Method
rinpol	2159.00		NIST Webbook
rinpol	2157.00		NIST Webbook
ripol	2277.00		NIST Webbook
tb	763.92	K	Joback Method
tc	946.36	K	Joback Method
tf	274.27	K	Joback Method
vc	1.343	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1048.29	J/mol×K	763.92	Joback Method
cpg	1070.21	J/mol×K	794.33	Joback Method
cpg	1091.06	J/mol×K	824.73	Joback Method
cpg	1110.91	J/mol×K	855.14	Joback Method
cpg	1129.83	J/mol×K	885.54	Joback Method
cpg	1147.87	J/mol×K	915.95	Joback Method
cpg	1165.12	J/mol×K	946.36	Joback Method

Sources

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=R278407&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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