2,10,14-trimethyl-6-methylene-7(3-methyl-pent-4-e

Inchi: InChI=1S/C25H46/c1-9-11-12-13-22(6)15-17-25(16-14-21(5)10-2)24(8)19-23(7)18-20(3)4
InchiKey: QFCKYLAVGRWICI-PXLXIMEGSA-N
Formula: C25H46
SMILES: C=CC(C)CCC(CC=C(C)CCCCC)C(C)CC(=C)CC(C)C
Mol. weight [g/mol]: 346.63

Physical Properties

Property code	Value	Unit	Source
gf	388.66	kJ/mol	Joback Method
hf	-231.95	kJ/mol	Joback Method
hfus	41.44	kJ/mol	Joback Method
hvap	68.47	kJ/mol	Joback Method
log10ws	-8.88		Crippen Method
logp	8.750		Crippen Method
mcvol	350.210	ml/mol	McGowan Method
pc	845.05	kPa	Joback Method
rinpol	2106.00		NIST Webbook
tb	766.92	K	Joback Method
tc	948.41	K	Joback Method
tf	274.99	K	Joback Method
vc	1.355	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1075.51	J/mol×K	766.92	Joback Method
cpg	1097.95	J/mol×K	797.17	Joback Method
cpg	1119.28	J/mol×K	827.42	Joback Method
cpg	1139.59	J/mol×K	857.67	Joback Method
cpg	1158.92	J/mol×K	887.92	Joback Method
cpg	1177.35	J/mol×K	918.17	Joback Method
cpg	1194.92	J/mol×K	948.41	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=R394559&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume