2,6,10,14-Tetramethyl-7-(3-methylpent-4-enylidene)pentadecane

Inchi: InChI=1S/C25H48/c1-9-22(6)16-18-25(24(8)15-11-13-21(4)5)19-17-23(7)14-10-12-20(2)3

InchiKey: WSXXWIKHJGKODD-XIEYBQDHSA-N

Formula: C25H48

SMILES: C=CC(C)CC=C(CCC(C)CCCC(C)C)C(C)CCCC(C)C

Mol. weight [g/mol]: 348.65

Physical Properties

Property code	Value	Unit	Source
gf	306.93	kJ/mol	Joback Method
hf	-352.87	kJ/mol	Joback Method
hfus	40.50	kJ/mol	Joback Method
hvap	68.67	kJ/mol	Joback Method
log10ws	-8.79		Crippen Method
logp	8.830		Crippen Method
mcvol	354.510	ml/mol	McGowan Method
pc	826.21	kPa	Joback Method
rinpol	2068.00		NIST Webbook
rinpol	2071.00		NIST Webbook
tb	769.92	K	Joback Method
tc	950.60	K	Joback Method
tf	275.71	K	Joback Method
vc	1.367	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1102.87	J/mol×K	769.92	Joback Method
cpg	1125.82	J/mol×K	800.03	Joback Method
cpg	1147.65	J/mol×K	830.15	Joback Method
cpg	1168.41	J/mol×K	860.26	Joback Method
cpg	1188.15	J/mol×K	890.37	Joback Method
cpg	1206.95	J/mol×K	920.48	Joback Method
cpg	1224.85	J/mol×K	950.60	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U370416&Units=SI
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

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