2,6,10,14-tetramethyl-7(3-methylene-pent-4-enyl)-

Inchi: InChI=1S/C25H38/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: HSCKENZTIHTETG-XYGPUEHRSA-N

Formula: C25H38

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

Mol. weight [g/mol]: 338.57

Physical Properties

Property code	Value	Unit	Source
gf	698.83	kJ/mol	Joback Method
hf	231.61	kJ/mol	Joback Method
hfus	47.40	kJ/mol	Joback Method
hvap	69.08	kJ/mol	Joback Method
log10ws	-9.02		Crippen Method
logp	8.286		Crippen Method
mcvol	333.010	ml/mol	McGowan Method
pc	946.16	kPa	Joback Method
rinpol	2248.00		NIST Webbook
tb	777.04	K	Joback Method
tc	971.83	K	Joback Method
tf	261.11	K	Joback Method
vc	1.298	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	974.79	J/mol×K	777.04	Joback Method
cpg	995.35	J/mol×K	809.50	Joback Method
cpg	1014.96	J/mol×K	841.97	Joback Method
cpg	1033.73	J/mol×K	874.43	Joback Method
cpg	1051.76	J/mol×K	906.90	Joback Method
cpg	1069.18	J/mol×K	939.36	Joback Method
cpg	1086.08	J/mol×K	971.83	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R394564&Units=SI

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