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

Inchi: InChI=1S/C25H40/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: CCKBIZOCBKFTRI-XYGPUEHRSA-N
Formula: C25H40
SMILES: C=CC(C)CCC(CC=C(C)CCC=CC)C(C)=CC(=C)C=C(C)C
Mol. weight [g/mol]: 340.59

Physical Properties

Property code	Value	Unit	Source
gf	617.10	kJ/mol	Joback Method
hf	110.69	kJ/mol	Joback Method
hfus	46.47	kJ/mol	Joback Method
hvap	69.28	kJ/mol	Joback Method
log10ws	-8.93		Crippen Method
logp	8.366		Crippen Method
mcvol	337.310	ml/mol	McGowan Method
pc	923.86	kPa	Joback Method
rinpol	2201.00		NIST Webbook
tb	780.04	K	Joback Method
tc	973.25	K	Joback Method
tf	261.83	K	Joback Method
vc	1.310	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1002.06	J/mol×K	780.04	Joback Method
cpg	1023.13	J/mol×K	812.24	Joback Method
cpg	1043.22	J/mol×K	844.44	Joback Method
cpg	1062.42	J/mol×K	876.64	Joback Method
cpg	1080.86	J/mol×K	908.85	Joback Method
cpg	1098.62	J/mol×K	941.05	Joback Method
cpg	1115.82	J/mol×K	973.25	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R394579&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