2,6,10,14-Tetramethyl-7-(3-methyl-pentyl)-pentade

Inchi: InChI=1S/C25H50/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: RENUPWSHEKJSOI-UHFFFAOYSA-N
Formula: C25H50
SMILES: C=C(CC(C)C)CC(C)C(CCC(C)CC)CCC(C)CCCCC
Mol. weight [g/mol]: 350.66

Physical Properties

Property code	Value	Unit	Source
gf	226.71	kJ/mol	Joback Method
hf	-470.09	kJ/mol	Joback Method
hfus	40.30	kJ/mol	Joback Method
hvap	68.71	kJ/mol	Joback Method
log10ws	-8.93		Crippen Method
logp	9.054		Crippen Method
mcvol	358.810	ml/mol	McGowan Method
pc	802.06	kPa	Joback Method
rinpol	2110.00		NIST Webbook
rinpol	2105.00		NIST Webbook
tb	765.76	K	Joback Method
tc	943.31	K	Joback Method
tf	280.79	K	Joback Method
vc	1.387	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1126.33	J/mol×K	765.76	Joback Method
cpg	1149.77	J/mol×K	795.35	Joback Method
cpg	1172.06	J/mol×K	824.94	Joback Method
cpg	1193.25	J/mol×K	854.54	Joback Method
cpg	1213.38	J/mol×K	884.13	Joback Method
cpg	1232.52	J/mol×K	913.72	Joback Method
cpg	1250.69	J/mol×K	943.31	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=R394584&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