Pentadeca-2,5,9,13-tetraene, 2,6,10,14-tetramethyl-7-(3-methylpent-4-enyl)

Inchi: InChI=1S/C25H42/c1-9-22(6)16-18-25(24(8)15-11-13-21(4)5)19-17-23(7)14-10-12-20(2)
InchiKey: LIGJLBPKCXGAOA-BXPHKCKFSA-N
Formula: C25H42
SMILES: C=CC(C)CCC(CC=C(C)CCC=C(C)C)C(C)=CCC=C(C)C
Mol. weight [g/mol]: 342.60

Physical Properties

Property code	Value	Unit	Source
gf	529.26	kJ/mol	Joback Method
hf	-14.74	kJ/mol	Joback Method
hfus	47.75	kJ/mol	Joback Method
hvap	69.95	kJ/mol	Joback Method
log10ws	-9.07		Crippen Method
logp	8.590		Crippen Method
mcvol	341.610	ml/mol	McGowan Method
pc	900.72	kPa	Joback Method
rinpol	2168.00		NIST Webbook
rinpol	2181.00		NIST Webbook
tb	783.36	K	Joback Method
tc	974.84	K	Joback Method
tf	263.59	K	Joback Method
vc	1.329	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1028.64	J/mol×K	783.36	Joback Method
cpg	1050.17	J/mol×K	815.27	Joback Method
cpg	1070.69	J/mol×K	847.19	Joback Method
cpg	1090.32	J/mol×K	879.10	Joback Method
cpg	1109.15	J/mol×K	911.01	Joback Method
cpg	1127.28	J/mol×K	942.92	Joback Method
cpg	1144.80	J/mol×K	974.84	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R507314&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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