6(E),15-Heptadecadiene, 2,6,12,16-tetramethyl-11-(3-methyl-4-pentenyliden

Inchi: InChI=1S/C27H50/c1-9-24(6)20-21-27(26(8)18-13-15-23(4)5)19-11-10-16-25(7)17-12-14

InchiKey: LTWNRWHWZXCBKS-XRBBYRFDSA-N

Formula: C27H50

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

Mol. weight [g/mol]: 374.69

Physical Properties

Property code	Value	Unit	Source
gf	397.88	kJ/mol	Joback Method
hf	-281.44	kJ/mol	Joback Method
hfus	48.10	kJ/mol	Joback Method
hvap	73.55	kJ/mol	Joback Method
log10ws	-9.72		Crippen Method
logp	9.530		Crippen Method
mcvol	378.390	ml/mol	McGowan Method
pc	762.26	kPa	Joback Method
rinpol	2134.00		NIST Webbook
tb	820.16	K	Joback Method
tc	1007.95	K	Joback Method
tf	294.21	K	Joback Method
vc	1.466	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1205.43	J/mol×K	820.16	Joback Method
cpg	1228.53	J/mol×K	851.46	Joback Method
cpg	1250.50	J/mol×K	882.76	Joback Method
cpg	1271.44	J/mol×K	914.05	Joback Method
cpg	1291.41	J/mol×K	945.35	Joback Method
cpg	1310.50	J/mol×K	976.65	Joback Method
cpg	1328.79	J/mol×K	1007.95	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R507765&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