

(E,E,E,E,E,E)-(±)-2,6,10,15,19,23-hexamethyltetracosane

Other names:	(6E,10E,14E,18E)-2,6,10,15,19,23-Hexamethyltetracosane-1,6,10,14,18,22-hexaen-3-ol
Inchi:	InChI=1S/C30H50O/c1-24(2)14-11-17-28(7)20-12-18-26(5)15-9-10-16-27(6)19-13-21-29
InchiKey:	JLUBMMAQMKVTGL-RLROCYJYSA-N
Formula:	C ₃₀ H ₅₀ O
SMILES:	C=C(C)C(O)CCC(C)=CCCC(C)=CCCC=C(C)CCC=C(C)CCC=C(C)C
Mol. weight [g/mol]:	426.72
CAS:	97232-74-1

Physical Properties

Property code	Value	Unit	Source
gf	500.10	kJ/mol	Joback Method
hf	-167.25	kJ/mol	Joback Method
hfus	65.89	kJ/mol	Joback Method
hvap	98.27	kJ/mol	Joback Method
log10ws	-10.88		Crippen Method
logp	9.576		Crippen Method
mcvol	413.630	ml/mol	McGowan Method
pc	744.07	kPa	Joback Method
rinpol	3030.80		NIST Webbook
rinpol	3030.80		NIST Webbook
tb	994.30	K	Joback Method
tc	1219.90	K	Joback Method
tf	362.76	K	Joback Method
vc	1.615	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1399.57	J/mol×K	994.30	Joback Method
cpg	1423.39	J/mol×K	1031.90	Joback Method
cpg	1446.71	J/mol×K	1069.50	Joback Method
cpg	1469.72	J/mol×K	1107.10	Joback Method
cpg	1492.63	J/mol×K	1144.70	Joback Method
cpg	1515.63	J/mol×K	1182.30	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C97232741&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

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