2,10-Dodecadien-1-ol, 3,7,11-trimethyl-, (Z)-

Other names: (2Z)-3,7,11-Trimethyl-2,10-dodecadien-1-ol
(Z)-6,7-Dihydrofarnesol
6,7-Dihydro-2-cis-farnesol
Inchi: InChI=1S/C15H28O/c1-13(2)7-5-8-14(3)9-6-10-15(4)11-12-16/h7,11,14,16H,5-6,8-10,12H
InchiKey: XOTVPLZGIIGSKR-PTNGSMBKSA-N
Formula: C15H28O
SMILES: CC(C)=CCCC(C)CCCC(C)=CCO
Mol. weight [g/mol]: 224.38
CAS: 20576-57-2

Physical Properties

Property code	Value	Unit	Source
gf	79.50	kJ/mol	Joback Method
hf	-295.58	kJ/mol	Joback Method
hfus	32.95	kJ/mol	Joback Method
hvap	65.35	kJ/mol	Joback Method
log10ws	-4.83		Crippen Method
logp	4.478		Crippen Method
mcvol	219.480	ml/mol	McGowan Method
pc	1674.16	kPa	Joback Method
rinpol	1668.00		NIST Webbook
tb	642.42	K	Joback Method
tc	816.42	K	Joback Method
tf	266.55	K	Joback Method
vc	0.851	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	595.29	J/mol×K	642.42	Joback Method
cpg	611.34	J/mol×K	671.42	Joback Method
cpg	626.64	J/mol×K	700.42	Joback Method
cpg	641.24	J/mol×K	729.42	Joback Method
cpg	655.17	J/mol×K	758.42	Joback Method

cpg	668.47	J/mol×K	787.42	Joback Method
cpg	681.19	J/mol×K	816.42	Joback Method

Sources

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=C20576572&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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