5,9-Dimethyl-8-decen-3-ol

Other names: 5,9-Dimethyl-8-decen-3-ol
Inchi: InChI=1S/C12H24O/c1-5-12(13)9-11(4)8-6-7-10(2)3/h7,11-13H,5-6,8-9H2,1-4H3
InchiKey: YBQNRPVINYKRGQ-UHFFFAOYSA-N
Formula: C12H24O
SMILES: CCC(O)CC(C)CCC=C(C)C
Mol. weight [g/mol]: 184.32

Physical Properties

Property code	Value	Unit	Source
hfus	22.77	kJ/mol	Joback Method
hvap	75.88	kJ/mol	Cheméo Relay (1.0)
logp	3.530		Crippen Method
mcvol	181.510	ml/mol	McGowan Method
tb	510.68	K	Cheméo Relay (1.0)
tc	678.45	K	Cheméo Relay (1.0)
tf	248.75	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	459.94	J/mol×K	569.30	Joback Method
cpg	474.94	J/mol×K	597.83	Joback Method
cpg	489.26	J/mol×K	626.35	Joback Method
cpg	502.95	J/mol×K	654.88	Joback Method
cpg	516.02	J/mol×K	683.41	Joback Method
cpg	528.49	J/mol×K	711.93	Joback Method
cpg	540.40	J/mol×K	740.46	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19550540&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point