8-Decen-3-ol, 5,9-dimethyl-

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
CAS:	19550-54-0

Physical Properties

Property code	Value	Unit	Source
gf	-19.87	kJ/mol	Joback Method
hf	-346.37	kJ/mol	Joback Method
hfus	22.77	kJ/mol	Joback Method
hvap	58.25	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	3.530		Crippen Method
mcvol	181.510	ml/mol	McGowan Method
pc	2056.76	kPa	Joback Method
tb	569.30	K	Joback Method
tc	740.46	K	Joback Method
tf	236.78	K	Joback Method
vc	0.696	m3/kmol	Joback Method

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

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19550540&Units=SI

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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