(11E,13Z)-Lambdadien-8-ol

Inchi: InChI=1S/C20H34O/c1-7-15(2)9-10-17-19(5)13-8-12-18(3,4)16(19)11-14-20(17,6)21/h7,9
InchiKey: FUOYNUQYIXMTMU-OQWNWGGLSA-N
Formula: C20H34O
SMILES: CC=C(C)C=CC1C(C)(O)CCC2C(C)(C)CCCC21C
Mol. weight [g/mol]: 290.48

Physical Properties

Property code	Value	Unit	Source
gf	166.09	kJ/mol	Joback Method
hf	-278.05	kJ/mol	Joback Method
hfus	22.93	kJ/mol	Joback Method
hvap	72.92	kJ/mol	Joback Method
log10ws	-6.10		Crippen Method
logp	5.502		Crippen Method
mcvol	268.210	ml/mol	McGowan Method
pc	1548.78	kPa	Joback Method
rinpol	2099.00		NIST Webbook
tb	774.65	K	Joback Method
tc	990.52	K	Joback Method
tf	432.64	K	Joback Method
vc	1.008	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	858.84	J/mol×K	774.65	Joback Method
cpg	882.67	J/mol×K	810.63	Joback Method
cpg	906.55	J/mol×K	846.61	Joback Method
cpg	930.82	J/mol×K	882.59	Joback Method
cpg	955.83	J/mol×K	918.57	Joback Method
cpg	981.92	J/mol×K	954.54	Joback Method
cpg	1009.42	J/mol×K	990.52	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R510533&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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