Labd-7-en-15-ol

Inchi: InChI=1S/C20H36O/c1-15(11-14-21)7-9-17-16(2)8-10-18-19(3,4)12-6-13-20(17,18)5/h8,1
InchiKey: KOHDKFKIPUPNMU-ZPQVWODMSA-N
Formula: C20H36O
SMILES: CC1=CCC2C(C)(C)CCCC2(C)C1CCC(C)CCO
Mol. weight [g/mol]: 292.50

Physical Properties

Property code	Value	Unit	Source
gf	45.29	kJ/mol	Joback Method
hf	-456.57	kJ/mol	Joback Method
hfus	26.37	kJ/mol	Joback Method
hvap	74.95	kJ/mol	Joback Method
log10ws	-5.89		Crippen Method
logp	5.584		Crippen Method
mcvol	272.510	ml/mol	McGowan Method
pc	1442.44	kPa	Joback Method
rinpol	2190.00		NIST Webbook
rinpol	2190.00		NIST Webbook
tb	774.58	K	Joback Method
tc	975.39	K	Joback Method
tf	435.38	K	Joback Method
vc	1.030	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	883.96	J/mol×K	774.58	Joback Method
cpg	906.20	J/mol×K	808.05	Joback Method
cpg	927.98	J/mol×K	841.52	Joback Method
cpg	949.49	J/mol×K	874.98	Joback Method
cpg	970.91	J/mol×K	908.45	Joback Method
cpg	992.43	J/mol×K	941.92	Joback Method
cpg	1014.25	J/mol×K	975.39	Joback Method

Sources

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=R229202&Units=SI
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
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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