(2R,3R,4aR,5S,8aS)-2-Hydroxy-4a,5-dimethyl-3-(pr

Inchi: InChI=1S/C15H24O2/c1-9(2)11-8-15(4)10(3)6-5-7-12(15)14(17)13(11)16/h10-13,16H,1,5
InchiKey: GNLGRODWPZFYCN-UHFFFAOYSA-N
Formula: C15H24O2
SMILES: C=C(C)C1CC2(C)C(C)CCCC2C(=O)C1O
Mol. weight [g/mol]: 236.35
CAS: 66884-74-0

Physical Properties

Property code	Value	Unit	Source
gf	-60.22	kJ/mol	Joback Method
hf	-452.04	kJ/mol	Joback Method
hfus	20.40	kJ/mol	Joback Method
hvap	67.76	kJ/mol	Joback Method
log10ws	-3.43		Crippen Method
logp	2.955		Crippen Method
mcvol	203.630	ml/mol	McGowan Method
pc	2108.07	kPa	Joback Method
rinpol	1774.10		NIST Webbook
tb	715.95	K	Joback Method
tc	932.65	K	Joback Method
tf	405.11	K	Joback Method
vc	0.760	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	638.21	J/mol×K	715.95	Joback Method
cpg	658.41	J/mol×K	752.07	Joback Method
cpg	677.62	J/mol×K	788.18	Joback Method
cpg	695.96	J/mol×K	824.30	Joback Method
cpg	713.53	J/mol×K	860.41	Joback Method
cpg	730.43	J/mol×K	896.53	Joback Method
cpg	746.77	J/mol×K	932.65	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=C66884740&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