Viscida-3,11(18),14-triene

Inchi: InChI=1S/C20H32/c1-15(2)7-6-8-17(4)19-10-9-18(5)20(19)13-11-16(3)12-14-20/h7,11,18
InchiKey: REUUHHGDDCLKJR-AABGKKOBSA-N
Formula: C20H32
SMILES: C=C(CCC=C(C)C)C1CCC(C)C12CC=C(C)CC2
Mol. weight [g/mol]: 272.47

Physical Properties

Property code	Value	Unit	Source
gf	348.71	kJ/mol	Joback Method
hf	-70.89	kJ/mol	Joback Method
hfus	27.33	kJ/mol	Joback Method
hvap	59.57	kJ/mol	Joback Method
log10ws	-6.82		Crippen Method
logp	6.452		Crippen Method
mcvol	258.040	ml/mol	McGowan Method
pc	1433.72	kPa	Joback Method
rinpol	1911.00		NIST Webbook
tb	687.87	K	Joback Method
tc	905.81	K	Joback Method
tf	335.14	K	Joback Method
vc	0.984	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	757.04	J/mol×K	687.87	Joback Method
cpg	781.32	J/mol×K	724.19	Joback Method
cpg	804.35	J/mol×K	760.52	Joback Method
cpg	826.31	J/mol×K	796.84	Joback Method
cpg	847.37	J/mol×K	833.16	Joback Method
cpg	867.73	J/mol×K	869.49	Joback Method
cpg	887.55	J/mol×K	905.81	Joback Method

Sources

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=R418487&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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