Rimuane

Inchi: InChI=1S/C20H36/c1-6-19(4)12-13-20(5)15(14-19)9-10-16-17(20)8-7-11-18(16,2)3/h15-1
InchiKey: CZEZFPXHDTYEBI-BKXYZSJASA-N
Formula: C20H36
SMILES: CCC1(C)CCC2(C)C(CCC3C2CCCC3(C)C)C1
Mol. weight [g/mol]: 276.50

Physical Properties

Property code	Value	Unit	Source
gf	199.67	kJ/mol	Joback Method
hf	-283.83	kJ/mol	Joback Method
hfus	15.78	kJ/mol	Joback Method
hvap	56.33	kJ/mol	Joback Method
log10ws	-6.43		Crippen Method
logp	6.445		Crippen Method
mcvol	260.080	ml/mol	McGowan Method
pc	1494.19	kPa	Joback Method
rinpol	1966.00		NIST Webbook
rinpol	1922.00		NIST Webbook
rinpol	1942.00		NIST Webbook
ripol	2164.00		NIST Webbook
ripol	2198.00		NIST Webbook
tb	685.28	K	Joback Method
tc	917.18	K	Joback Method
tf	410.36	K	Joback Method
vc	0.978	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	811.77	J/mol×K	685.28	Joback Method
cpg	840.70	J/mol×K	723.93	Joback Method
cpg	868.58	J/mol×K	762.58	Joback Method
cpg	895.82	J/mol×K	801.23	Joback Method
cpg	922.83	J/mol×K	839.88	Joback Method

cpg	950.02	J/mol×K	878.53	Joback Method
cpg	977.79	J/mol×K	917.18	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=R27360&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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume