Isocembrene

Inchi: InChI=1S/C20H32/c1-16(2)20-14-12-18(4)10-6-8-17(3)9-7-11-19(5)13-15-20/h8,11-12,14
InchiKey: VYWGLUCGRVXWKB-KSJQBYEHSA-N
Formula: C20H32
SMILES: C=C1C=CC(C(C)C)CCC(C)=CCCC(C)=CCC1
Mol. weight [g/mol]: 272.47

Physical Properties

Property code	Value	Unit	Source
gf	166.43	kJ/mol	Joback Method
hf	-221.73	kJ/mol	Joback Method
hfus	20.80	kJ/mol	Joback Method
hvap	63.89	kJ/mol	Joback Method
log10ws	-7.02		Crippen Method
logp	6.618		Crippen Method
mcvol	264.600	ml/mol	McGowan Method
pc	1447.94	kPa	Joback Method
rinpol	1952.00		NIST Webbook
rinpol	1945.00		NIST Webbook
rinpol	1952.00		NIST Webbook
rinpol	1945.00		NIST Webbook
ripol	2297.00		NIST Webbook
ripol	2297.00		NIST Webbook
tb	716.87	K	Joback Method
tc	950.69	K	Joback Method
tf	320.38	K	Joback Method
vc	0.961	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	773.20	J/mol×K	716.87	Joback Method
cpg	885.57	J/mol×K	911.72	Joback Method
cpg	867.27	J/mol×K	872.75	Joback Method
cpg	846.85	J/mol×K	833.78	Joback Method

cpg	824.35	J/mol×K	794.81	Joback Method
cpg	799.79	J/mol×K	755.84	Joback Method
cpg	901.74	J/mol×K	950.69	Joback Method
dvisc	0.0000099	Pa×s	716.87	Joback Method
dvisc	0.0000163	Pa×s	650.79	Joback Method
dvisc	0.0000301	Pa×s	584.71	Joback Method
dvisc	0.0000649	Pa×s	518.62	Joback Method
dvisc	0.0001748	Pa×s	452.54	Joback Method
dvisc	0.0006609	Pa×s	386.46	Joback Method
dvisc	0.0043264	Pa×s	320.38	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=R429704&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
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