cis-1-Methyl-3-isopropylcyclopentane

Other names:	1-cis-3-methylisopropylcyclopentane
	CIS-1-N-ISOPROPYL-3-METHYLCYCLOPENTANE
	Cyclopentane, 1-methyl-3-(1-methylethyl)-, cis
Inchi:	InChI=1S/C9H18/c1-7(2)9-5-4-8(3)6-9/h7-9H,4-6H2,1-3H3/t8-,9+/m1/s1
InchiKey:	CDTDMKCVKCGRPD-BDAKNGLRSA-N
Formula:	C9H18
SMILES:	CC1CCC(C(C)C)C1
Mol. weight [g/mol]:	126.24

Physical Properties

Property code	Value	Unit	Source
gf	51.30	kJ/mol	Joback Method
hf	-194.23	kJ/mol	Joback Method
hfus	10.55	kJ/mol	Joback Method
hvap	35.19	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	3.079		Crippen Method
mcvol	126.810	ml/mol	McGowan Method
pc	2693.00	kPa	Joback Method
rinpol	861.00		NIST Webbook
rinpol	869.00		NIST Webbook
rinpol	872.00		NIST Webbook
rinpol	866.00		NIST Webbook
rinpol	856.00		NIST Webbook
rinpol	869.00		NIST Webbook
rinpol	865.00		NIST Webbook
rinpol	861.00		NIST Webbook
rinpol	859.70		NIST Webbook
rinpol	856.00		NIST Webbook
tb	415.49	K	Joback Method
tc	610.70	K	Joback Method
tf	182.85	K	Joback Method
vc	0.473	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.75	J/mol×K	415.49	Joback Method
cpg	339.06	J/mol×K	578.17	Joback Method
cpg	323.99	J/mol×K	545.63	Joback Method
cpg	308.15	J/mol×K	513.10	Joback Method
cpg	291.51	J/mol×K	480.56	Joback Method
cpg	274.05	J/mol×K	448.03	Joback Method
cpg	353.37	J/mol×K	610.70	Joback Method
dvisc	0.0002863	Pa×s	415.49	Joback Method
dvisc	0.0003541	Pa×s	376.72	Joback Method
dvisc	0.0004600	Pa×s	337.94	Joback Method
dvisc	0.0006395	Pa×s	299.17	Joback Method
dvisc	0.0009806	Pa×s	260.40	Joback Method
dvisc	0.0017463	Pa×s	221.62	Joback Method
dvisc	0.0039722	Pa×s	182.85	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
KDB: https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=516
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R92997&Units=SI

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume