

1-methyl-cis-2-isopropyl-cyclopropane

Other names:	cis-1-Methyl-2-isopropylcyclopropane
Inchi:	InChI=1S/C7H14/c1-5(2)7-4-6(7)3/h5-7H,4H2,1-3H3/t6-,7-/m1/s1
InchiKey:	JDZVNQMEYFJAND-RNFRBKRXSA-N
Formula:	C7H14
SMILES:	CC(C)C1CC1C
Mol. weight [g/mol]:	98.19

Physical Properties

Property code	Value	Unit	Source
gf	58.66	kJ/mol	Joback Method
hf	-140.63	kJ/mol	Joback Method
hfus	9.57	kJ/mol	Joback Method
hvap	30.39	kJ/mol	Joback Method
log10ws	-1.92		Crippen Method
logp	2.298		Crippen Method
mvol	98.630	ml/mol	McGowan Method
pc	3138.51	kPa	Joback Method
rinpol	658.00		NIST Webbook
rinpol	658.40		NIST Webbook
tb	361.19	K	Joback Method
tc	543.00	K	Joback Method
tf	167.35	K	Joback Method
vc	0.378	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	177.42	J/mol×K	361.19	Joback Method
cpg	191.50	J/mol×K	391.49	Joback Method
cpg	204.93	J/mol×K	421.79	Joback Method
cpg	217.72	J/mol×K	452.10	Joback Method
cpg	229.90	J/mol×K	482.40	Joback Method
cpg	241.50	J/mol×K	512.70	Joback Method
cpg	252.54	J/mol×K	543.00	Joback Method

dvisc	0.0005968	Paxs	167.35	Joback Method
dvisc	0.0004714	Paxs	199.66	Joback Method
dvisc	0.0003977	Paxs	231.96	Joback Method
dvisc	0.0003497	Paxs	264.27	Joback Method
dvisc	0.0003163	Paxs	296.58	Joback Method
dvisc	0.0002917	Paxs	328.88	Joback Method
dvisc	0.0002730	Paxs	361.19	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R137356&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

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