

# trans-1-Methyl-2-isopropylcyclopropane

<b>Other names:</b>	1-methyl-trans-2-isopropyl-cyclopropane
<b>Inchi:</b>	InChI=1S/C7H14/c1-5(2)7-4-6(7)3/h5-7H,4H2,1-3H3/t6-,7+/m1/s1
<b>InchiKey:</b>	JDZVNQMEYFJAND-RQJHMYQMSA-N
<b>Formula:</b>	C7H14
<b>SMILES:</b>	CC(C)C1CC1C
<b>Mol. weight [g/mol]:</b>	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	625.00		NIST Webbook
rinpol	624.80		NIST Webbook
tb	361.19	K	Joback Method
tc	543.00	K	Joback Method
tf	167.35	K	Joback Method
vc	0.378	m <sup>3</sup> /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

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R137529&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R137529&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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