

(2-methylpropyl)-cyclopropane

Inchi:	InChI=1S/C7H14/c1-6(2)5-7-3-4-7/h6-7H,3-5H2,1-2H3
InchiKey:	XIMCWSMVGVJQQN-UHFFFAOYSA-N
Formula:	C7H14
SMILES:	CC(C)CC1CC1
Mol. weight [g/mol]:	98.19

Physical Properties

Property code	Value	Unit	Source
gf	66.37	kJ/mol	Joback Method
hf	-120.29	kJ/mol	Joback Method
hfus	8.50	kJ/mol	Joback Method
hvap	30.70	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	2.442		Crippen Method
mcvol	98.630	ml/mol	McGowan Method
pc	3257.86	kPa	Joback Method
rinpol	680.60		NIST Webbook
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tb	365.86	K	Joback Method
tc	548.36	K	Joback Method
tf	171.59	K	Joback Method
vc	0.379	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	177.35	J/molxK	365.86	Joback Method
cpg	191.27	J/molxK	396.28	Joback Method
cpg	204.50	J/molxK	426.69	Joback Method
cpg	217.06	J/molxK	457.11	Joback Method
cpg	228.97	J/molxK	487.53	Joback Method
cpg	240.28	J/molxK	517.94	Joback Method
cpg	251.00	J/molxK	548.36	Joback Method
dvisc	0.0014366	Paxs	171.59	Joback Method

dvisc	0.0009117	Paxs	203.97	Joback Method
dvisc	0.0006553	Paxs	236.35	Joback Method
dvisc	0.0005101	Paxs	268.73	Joback Method
dvisc	0.0004190	Paxs	301.10	Joback Method
dvisc	0.0003576	Paxs	333.48	Joback Method
dvisc	0.0003139	Paxs	365.86	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R137698&Units=SI
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

Legend

cp_g:	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
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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