

1,2-Dimethylcyclopropane

Other names:	Cyclopropane, 1,2-dimethyl
Inchi:	InChI=1S/C5H10/c1-4-3-5(4)2/h4-5H,3H2,1-2H3
InchiKey:	VKJLDXGFBJBTRQ-UHFFFAOYSA-N
Formula:	C5H10
SMILES:	CC1CC1C
Mol. weight [g/mol]:	70.13
CAS:	2511-95-7

Physical Properties

Property code	Value	Unit	Source
gf	44.26	kJ/mol	Joback Method
hf	-94.07	kJ/mol	Joback Method
hfus	7.91	kJ/mol	Joback Method
hvap	26.33	kJ/mol	Joback Method
log10ws	-1.33		Crippen Method
logp	1.662		Crippen Method
mcvol	70.450	ml/mol	McGowan Method
pc	3901.37	kPa	Joback Method
rinpol	481.00		NIST Webbook
tb	315.87	K	Joback Method
tc	493.17	K	Joback Method
tf	159.81	K	Joback Method
vc	0.272	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	107.14	J/mol×K	315.87	Joback Method
cpg	118.05	J/mol×K	345.42	Joback Method
cpg	128.46	J/mol×K	374.97	Joback Method
cpg	138.38	J/mol×K	404.52	Joback Method
cpg	147.84	J/mol×K	434.07	Joback Method
cpg	156.84	J/mol×K	463.62	Joback Method
cpg	165.41	J/mol×K	493.17	Joback Method

dvisc	0.0001888	Pa×s	159.81	Joback Method
dvisc	0.0001859	Pa×s	185.82	Joback Method
dvisc	0.0001837	Pa×s	211.83	Joback Method
dvisc	0.0001821	Pa×s	237.84	Joback Method
dvisc	0.0001807	Pa×s	263.85	Joback Method
dvisc	0.0001797	Pa×s	289.86	Joback Method
dvisc	0.0001788	Pa×s	315.87	Joback Method

Sources

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=C2511957&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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