

Cyclopropane, methylenemethylene-

Other names:	1-Methyl-2-methylenecyclopropane 2-Methylenemethylenecyclopropane
Inchi:	InChI=1S/C5H8/c1-4-3-5(4)2/h5H,1,3H2,2H3
InchiKey:	PKCSMQZDZICOIA-UHFFFAOYSA-N
Formula:	C5H8
SMILES:	C=C1CC1C
Mol. weight [g/mol]:	68.12
CAS:	18631-84-0

Physical Properties

Property code	Value	Unit	Source
gf	105.05	kJ/mol	Joback Method
hf	10.51	kJ/mol	Joback Method
hfus	5.68	kJ/mol	Joback Method
hvap	26.80	kJ/mol	Joback Method
log10ws	-1.42		Crippen Method
logp	1.582		Crippen Method
mvol	66.150	ml/mol	McGowan Method
pc	4167.71	kPa	Joback Method
rinpol	575.62		NIST Webbook
tb	319.70	K	Joback Method
tc	499.61	K	Joback Method
tf	177.73	K	Joback Method
vc	0.257	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	99.59	J/molxK	319.70	Joback Method
cpg	140.29	J/molxK	469.62	Joback Method
cpg	132.98	J/molxK	439.64	Joback Method
cpg	125.27	J/molxK	409.65	Joback Method
cpg	117.15	J/molxK	379.67	Joback Method
cpg	108.60	J/molxK	349.68	Joback Method

cpg	147.22	J/molxK	499.61	Joback Method
dvisc	0.0001994	Paxs	319.70	Joback Method
dvisc	0.0002051	Paxs	296.04	Joback Method
dvisc	0.0002120	Paxs	272.38	Joback Method
dvisc	0.0002205	Paxs	248.72	Joback Method
dvisc	0.0002313	Paxs	225.05	Joback Method
dvisc	0.0002454	Paxs	201.39	Joback Method
dvisc	0.0002644	Paxs	177.73	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18631840&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

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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