

Cyclopropane, ethylidene-

Other names:	Ethylidenecyclopropane
Inchi:	InChI=1S/C5H8/c1-2-5-3-4-5/h2H,3-4H2,1H3
InchiKey:	ZIFNDRXSSPCNID-UHFFFAOYSA-N
Formula:	C5H8
SMILES:	CC=C1CC1
Mol. weight [g/mol]:	68.12
CAS:	18631-83-9

Physical Properties

Property code	Value	Unit	Source
gf	105.14	kJ/mol	Joback Method
hf	22.64	kJ/mol	Joback Method
hfus	6.09	kJ/mol	Joback Method
hvap	27.73	kJ/mol	Joback Method
log10ws	-1.66		Crippen Method
logp	1.727		Crippen Method
mcvol	66.150	ml/mol	McGowan Method
pc	4409.10	kPa	Joback Method
tb	331.85	K	Joback Method
tc	519.00	K	Joback Method
tf	178.65	K	Joback Method
vc	0.257	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	97.55	J/molxK	331.85	Joback Method
cpg	106.93	J/molxK	363.04	Joback Method
cpg	115.72	J/molxK	394.23	Joback Method
cpg	123.97	J/molxK	425.43	Joback Method
cpg	131.69	J/molxK	456.62	Joback Method
cpg	138.93	J/molxK	487.81	Joback Method
cpg	145.71	J/molxK	519.00	Joback Method
dvisc	0.0006266	Paxs	178.65	Joback Method

dvisc	0.0004729	Paxs	204.18	Joback Method
dvisc	0.0003800	Paxs	229.72	Joback Method
dvisc	0.0003189	Paxs	255.25	Joback Method
dvisc	0.0002764	Paxs	280.78	Joback Method
dvisc	0.0002453	Paxs	306.32	Joback Method
dvisc	0.0002217	Paxs	331.85	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18631839&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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