Cyclopropane, (1-methylethylidene)-

Other names: Propane, 2-cyclopropylidene-
Cyclopropane, isopropylidene-
Inchi: InChI=1S/C6H10/c1-5(2)6-3-4-6/h3-4H2,1-2H3
InchiKey: WRKAQWHUTDUJHT-UHFFFAOYSA-N
Formula: C6H10
SMILES: CC(C)=C1CC1
Mol. weight [g/mol]: 82.14
CAS: 4741-86-0

Physical Properties

Property code	Value	Unit	Source
gf	105.01	kJ/mol	Joback Method
hf	-7.79	kJ/mol	Joback Method
hfus	7.37	kJ/mol	Joback Method
hvap	30.04	kJ/mol	Joback Method
log10ws	-2.08		Crippen Method
logp	2.117		Crippen Method
mcvol	80.240	ml/mol	McGowan Method
pc	3920.94	kPa	Joback Method
tb	354.61	K	Joback Method
tc	545.47	K	Joback Method
tf	175.96	K	Joback Method
vc	0.314	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	130.99	J/mol×K	354.61	Joback Method
cpg	141.98	J/mol×K	386.42	Joback Method
cpg	152.30	J/mol×K	418.23	Joback Method
cpg	161.99	J/mol×K	450.04	Joback Method
cpg	171.09	J/mol×K	481.85	Joback Method
cpg	179.64	J/mol×K	513.66	Joback Method
cpg	187.66	J/mol×K	545.47	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4741860&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
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