(E)-2-Butenylcyclopropane

Other names:	(2E)-2-Butenylcyclopropane
	trans-2-Butenyl-cyclopropane
Inchi:	InChI=1S/C7H12/c1-2-3-4-7-5-6-7/h2-3,7H,4-6H2,1H3/b3-2+
InchiKey:	HFWBELFXCMGIGS-NSCUHMNNSA-N
Formula:	C7H12
SMILES:	CC=CCC1CC1
Mol. weight [g/mol]:	96.17
CAS:	76588-98-2

Physical Properties

Property code	Value	Unit	Source
gf	149.03	kJ/mol	Joback Method
hf	2.21	kJ/mol	Joback Method
hfus	12.22	kJ/mol	Joback Method
hvap	31.05	kJ/mol	Joback Method
log10ws	-2.26		Crippen Method
logp	2.363		Crippen Method
mcvol	94.330	ml/mol	McGowan Method
pc	3427.87	kPa	Joback Method
rinpol	715.40		NIST Webbook
rinpol	715.00		NIST Webbook
tb	370.46	K	Joback Method
tc	558.31	K	Joback Method
tf	181.51	K	Joback Method
vc	0.364	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	163.59	J/mol×K	370.46	Joback Method
cpg	176.97	J/mol×K	401.77	Joback Method
cpg	189.56	J/mol×K	433.08	Joback Method
cpg	201.42	J/mol×K	464.39	Joback Method
cpg	212.58	J/mol×K	495.70	Joback Method

cpg	223.08	J/mol×K	527.00	Joback Method
cpg	232.96	J/mol×K	558.31	Joback Method
dvisc	0.0008992	Pa×s	181.51	Joback Method
dvisc	0.0006335	Pa×s	213.00	Joback Method
dvisc	0.0004884	Pa×s	244.49	Joback Method
dvisc	0.0003996	Pa×s	275.99	Joback Method
dvisc	0.0003407	Pa×s	307.48	Joback Method
dvisc	0.0002992	Pa×s	338.97	Joback Method
dvisc	0.0002686	Pa×s	370.46	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C76588982&Units=SI

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