

cis-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-IHWYPQMZSA-N
Formula:	C7H12
SMILES:	CC=CCC1CC1
Mol. weight [g/mol]:	96.17

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	723.60		NIST Webbook
rinpol	725.00		NIST Webbook
rinpol	721.40		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/molxK	370.46	Joback Method
cpg	223.08	J/molxK	527.00	Joback Method
cpg	212.58	J/molxK	495.70	Joback Method
cpg	201.42	J/molxK	464.39	Joback Method
cpg	189.56	J/molxK	433.08	Joback Method
cpg	176.97	J/molxK	401.77	Joback Method
cpg	232.96	J/molxK	558.31	Joback Method

dvisc	0.0002686	Paxs	370.46	Joback Method
dvisc	0.0002992	Paxs	338.97	Joback Method
dvisc	0.0003407	Paxs	307.48	Joback Method
dvisc	0.0003996	Paxs	275.99	Joback Method
dvisc	0.0004884	Paxs	244.49	Joback Method
dvisc	0.0006335	Paxs	213.00	Joback Method
dvisc	0.0008992	Paxs	181.51	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R137841&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
mvol:	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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