

trans-1-propenyl-cyclopropane

Inchi:	InChI=1S/C6H10/c1-2-3-6-4-5-6/h2-3,6H,4-5H2,1H3/b3-2+
InchiKey:	TWAJIXJFYMNJJO-NSCUHMNNSA-N
Formula:	C6H10
SMILES:	CC=CC1CC1
Mol. weight [g/mol]:	82.14
CAS:	20479-69-0

Physical Properties

Property code	Value	Unit	Source
gf	140.61	kJ/mol	Joback Method
hf	22.85	kJ/mol	Joback Method
hfus	9.63	kJ/mol	Joback Method
hvap	28.82	kJ/mol	Joback Method
log10ws	-1.84		Crippen Method
logp	1.973		Crippen Method
mcvol	80.240	ml/mol	McGowan Method
pc	3848.31	kPa	Joback Method
rinpol	638.60		NIST Webbook
rinpol	641.70		NIST Webbook
rinpol	638.60		NIST Webbook
tb	347.58	K	Joback Method
tc	536.08	K	Joback Method
tf	170.24	K	Joback Method
vc	0.308	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	127.26	J/molxK	347.58	Joback Method
cpg	139.39	J/molxK	379.00	Joback Method
cpg	150.78	J/molxK	410.41	Joback Method
cpg	161.48	J/molxK	441.83	Joback Method
cpg	171.52	J/molxK	473.24	Joback Method
cpg	180.94	J/molxK	504.66	Joback Method

cpg	189.79	J/molxK	536.08	Joback Method
dvisc	0.0006305	Paxs	170.24	Joback Method
dvisc	0.0004709	Paxs	199.80	Joback Method
dvisc	0.0003792	Paxs	229.35	Joback Method
dvisc	0.0003209	Paxs	258.91	Joback Method
dvisc	0.0002809	Paxs	288.47	Joback Method
dvisc	0.0002521	Paxs	318.02	Joback Method
dvisc	0.0002305	Paxs	347.58	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C20479690&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

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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