

Cyclopentane, propylidene

Inchi:	InChI=1S/C8H14/c1-2-5-8-6-3-4-7-8/h5H,2-4,6-7H2,1H3
InchiKey:	JCZSETXGLMHOIT-UHFFFAOYSA-N
Formula:	C8H14
SMILES:	CCC=C1CCCC1
Mol. weight [g/mol]:	110.20

Physical Properties

Property code	Value	Unit	Source
gf	106.20	kJ/mol	Joback Method
hf	-51.60	kJ/mol	Joback Method
hfus	9.66	kJ/mol	Joback Method
hvap	34.76	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.897		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
pc	3287.81	kPa	Joback Method
rinpol	853.00		NIST Webbook
rinpol	854.00		NIST Webbook
rinpol	857.00		NIST Webbook
tb	409.03	K	Joback Method
tc	609.90	K	Joback Method
tf	205.42	K	Joback Method
vc	0.408	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	202.03	J/molxK	409.03	Joback Method
cpg	217.04	J/molxK	442.51	Joback Method
cpg	231.24	J/molxK	475.99	Joback Method
cpg	244.67	J/molxK	509.46	Joback Method
cpg	257.36	J/molxK	542.94	Joback Method
cpg	269.35	J/molxK	576.42	Joback Method
cpg	280.67	J/molxK	609.90	Joback Method

dvisc	0.0039665	Paxs	205.42	Joback Method
dvisc	0.0018421	Paxs	239.36	Joback Method
dvisc	0.0010350	Paxs	273.29	Joback Method
dvisc	0.0006605	Paxs	307.23	Joback Method
dvisc	0.0004609	Paxs	341.16	Joback Method
dvisc	0.0003433	Paxs	375.10	Joback Method
dvisc	0.0002685	Paxs	409.03	Joback Method

Sources

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=R10771&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307i

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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