

Cyclopropane, (1,2-dimethylpropyl)-

Other names:	(1,2-Dimethylpropyl)cyclopropane
Inchi:	InChI=1S/C8H16/c1-6(2)7(3)8-4-5-8/h6-8H,4-5H2,1-3H3
InchiKey:	JSDZSLGMRRSAHD-UHFFFAOYSA-N
Formula:	C8H16
SMILES:	CC(C)C(C)C1CC1
Mol. weight [g/mol]:	112.21
CAS:	6976-27-8

Physical Properties

Property code	Value	Unit	Source
gf	72.35	kJ/mol	Joback Method
hf	-146.21	kJ/mol	Joback Method
hfus	7.57	kJ/mol	Joback Method
hvap	32.54	kJ/mol	Joback Method
log10ws	-2.34		Crippen Method
logp	2.688		Crippen Method
mcvol	112.720	ml/mol	McGowan Method
pc	2953.69	kPa	Joback Method
tb	388.64 ± 0.50	K	NIST Webbook
tc	574.38	K	Joback Method
tf	167.86	K	Joback Method
vc	0.428	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	216.27	J/mol×K	388.30	Joback Method
cpg	231.79	J/mol×K	419.31	Joback Method
cpg	246.53	J/mol×K	450.33	Joback Method
cpg	260.51	J/mol×K	481.34	Joback Method
cpg	273.78	J/mol×K	512.35	Joback Method
cpg	286.35	J/mol×K	543.37	Joback Method
cpg	298.27	J/mol×K	574.38	Joback Method
dvisc	0.0027530	Pa×s	167.86	Joback Method

dvisc	0.0014130	Pa×s	204.60	Joback Method
dvisc	0.0008885	Pa×s	241.34	Joback Method
dvisc	0.0006315	Pa×s	278.08	Joback Method
dvisc	0.0004861	Pa×s	314.82	Joback Method
dvisc	0.0003952	Pa×s	351.56	Joback Method
dvisc	0.0003342	Pa×s	388.30	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6976278&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

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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