

Cyclopropane, 1,2-dichloro, trans

Inchi:	InChI=1S/C3H4Cl2/c4-2-1-3(2)5/h2-3H,1H2/t2-,3-/m1/s1
InchiKey:	YYQKBUMQNFGUGI-PWNYCUMCSA-N
Formula:	C3H4Cl2
SMILES:	C1C1CC1Cl
Mol. weight [g/mol]:	110.97

Physical Properties

Property code	Value	Unit	Source
gf	3.56	kJ/mol	Joback Method
hf	-84.27	kJ/mol	Joback Method
hfus	11.13	kJ/mol	Joback Method
hvap	30.65	kJ/mol	Joback Method
log10ws	-1.50		Crippen Method
logp	1.605		Crippen Method
mcvol	66.750	ml/mol	McGowan Method
pc	4546.92	kPa	Joback Method
rinsol	1078.00		NIST Webbook
tb	344.97	K	Joback Method
tc	543.78	K	Joback Method
tf	197.11	K	Joback Method
vc	0.258	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	92.48	J/molxK	344.97	Joback Method
cpg	124.75	J/molxK	510.65	Joback Method
cpg	119.14	J/molxK	477.51	Joback Method
cpg	113.14	J/molxK	444.38	Joback Method
cpg	106.71	J/molxK	411.24	Joback Method
cpg	99.83	J/molxK	378.11	Joback Method
cpg	129.98	J/molxK	543.78	Joback Method
dvisc	0.0003641	Paxs	344.97	Joback Method
dvisc	0.0003784	Paxs	320.33	Joback Method

dvisc	0.0003957	Paxs	295.68	Joback Method
dvisc	0.0004172	Paxs	271.04	Joback Method
dvisc	0.0004445	Paxs	246.40	Joback Method
dvisc	0.0004804	Paxs	221.75	Joback Method
dvisc	0.0005293	Paxs	197.11	Joback Method

Sources

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=R515345&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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