

1,3-Dichloro-2-methyl-propene

Other names:	Propene, 1,3-dichloro-2-methyl-, E
Inchi:	InChI=1S/C4H6Cl2/c1-4(2-5)3-6/h2H,3H2,1H3/b4-2+
InchiKey:	ZWZWQSKCVXIXQJ-DUXPYHPUSA-N
Formula:	C4H6Cl2
SMILES:	CC(=CCl)CCl
Mol. weight [g/mol]:	125.00

Physical Properties

Property code	Value	Unit	Source
gf	30.61	kJ/mol	Joback Method
hf	-49.94	kJ/mol	Joback Method
hfus	13.40	kJ/mol	Joback Method
hvap	33.31	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	2.368		Crippen Method
mcvol	87.400	ml/mol	McGowan Method
pc	3815.10	kPa	Joback Method
rinpol	796.00		NIST Webbook
rinpol	796.00		NIST Webbook
tb	369.82	K	Joback Method
tc	565.76	K	Joback Method
tf	175.64	K	Joback Method
vc	0.339	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	126.87	J/mol×K	369.82	Joback Method
cpg	133.93	J/mol×K	402.48	Joback Method
cpg	140.56	J/mol×K	435.13	Joback Method
cpg	146.81	J/mol×K	467.79	Joback Method
cpg	152.67	J/mol×K	500.45	Joback Method
cpg	158.19	J/mol×K	533.10	Joback Method
cpg	163.37	J/mol×K	565.76	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U194022&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

Legend

cpg:	Ideal gas heat capacity
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
rlnpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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