

Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, ethyl ester

Other names:	Ethyl 2-(2,2-dichlorovinyl)-3,3-dimethylcyclopropanecarboxylate Ethyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane-1-carboxylate 3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropanecarboxylic acid, ethyl ester Ethyl 3-(2,2-dichlorovinyl)-2,2-dimethyl-1-cyclopropanecarboxylate,c&t ethyl 3-(2,2-dichlorovinyl)-2,2-dimethyl-1-cyclopropanecarboxylate
Inchi:	InChI=1S/C10H14Cl2O2/c1-4-14-9(13)8-6(5-7(11)12)10(8,2)3/h5-6,8H,4H2,1-3H3
InchiKey:	QPTWKDNRYCGMJM-UHFFFAOYSA-N
Formula:	C10H14Cl2O2
SMILES:	CCOC(=O)C1C(C=C(Cl)Cl)C1(C)C
Mol. weight [g/mol]:	237.12
CAS:	59609-49-3

Physical Properties

Property code	Value	Unit	Source
gf	-112.95	kJ/mol	Joback Method
hf	-371.22	kJ/mol	Joback Method
hfus	25.71	kJ/mol	Joback Method
hvap	53.96	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	3.141		Crippen Method
mcvol	168.520	ml/mol	McGowan Method
pc	2402.92	kPa	Joback Method
tb	581.03	K	Joback Method
tc	794.44	K	Joback Method
tf	348.78	K	Joback Method
vc	0.651	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.66	J/molxK	581.03	Joback Method
cpg	408.31	J/molxK	616.60	Joback Method
cpg	421.15	J/molxK	652.17	Joback Method
cpg	433.29	J/molxK	687.74	Joback Method

cpg	444.85	J/mol×K	723.31	Joback Method
cpg	455.97	J/mol×K	758.87	Joback Method
cpg	466.75	J/mol×K	794.44	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	392.70	K	2.00	NIST Webbook

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C59609493&Units=SI

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
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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