

# Ethane, 2-chloro-1,1-diethoxy-

<b>Other names:</b>	Acetaldehyde, chloro-, diethyl acetal Chloroacetaldehyde diethyl acetal Diethoxyethyl chloride Monochloroacetaldehyde diethyl acetal 2-Chloroacetaldehyde diethyl acetal 1,1-Diethoxy-2-chloroethane 2-Chloro-1,1-diethoxyethane NSC 8436
<b>Inchi:</b>	InChI=1S/C6H13ClO2/c1-3-8-6(5-7)9-4-2/h6H,3-5H2,1-2H3
<b>InchiKey:</b>	OVXJWSYBABKZMD-UHFFFAOYSA-N
<b>Formula:</b>	C6H13ClO2
<b>SMILES:</b>	CCOC(CCl)OCC
<b>Mol. weight [g/mol]:</b>	152.62
<b>CAS:</b>	621-62-5

## Physical Properties

Property code	Value	Unit	Source
gf	-224.73	kJ/mol	Joback Method
hf	-452.63	kJ/mol	Joback Method
hfus	14.35	kJ/mol	Joback Method
hvap	37.77	kJ/mol	Joback Method
log10ws	-1.27		Crippen Method
logp	1.624		Crippen Method
mcvol	119.380	ml/mol	McGowan Method
pc	2899.85	kPa	Joback Method
rinpol	930.00		NIST Webbook
tb	430.60	K	NIST Webbook
tb	430.60 ± 0.50	K	NIST Webbook
tb	430.60 ± 0.50	K	NIST Webbook
tc	595.18	K	Joback Method
tf	216.76	K	Joback Method
vc	0.451	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	230.97	J/molxK	418.51	Joback Method
cpg	241.18	J/molxK	447.95	Joback Method
cpg	251.12	J/molxK	477.40	Joback Method
cpg	260.77	J/molxK	506.84	Joback Method
cpg	270.13	J/molxK	536.29	Joback Method
cpg	279.20	J/molxK	565.73	Joback Method
cpg	287.97	J/molxK	595.18	Joback Method
dvisc	0.0041771	Paxs	216.76	Joback Method
dvisc	0.0018339	Paxs	250.38	Joback Method
dvisc	0.0009784	Paxs	284.01	Joback Method
dvisc	0.0005962	Paxs	317.63	Joback Method
dvisc	0.0003995	Paxs	351.26	Joback Method
dvisc	0.0002871	Paxs	384.88	Joback Method
dvisc	0.0002175	Paxs	418.51	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	344.70	K	4.70	NIST Webbook

## Sources

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C621625&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307I>

Crippen Method:

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

Joback Method:

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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