

Acetamide, 2,2-dichloro-

Other names:	Dichloroacetamide 2,2-Dichloroacetamide 2,2'-Dichloroacetamide Acetamide, dichloro-
Inchi:	InChI=1S/C2H3Cl2NO/c3-1(4)2(5)6/h1H,(H2,5,6)
InchiKey:	WCGGWVOVFQNRRS-UHFFFAOYSA-N
Formula:	C2H3Cl2NO
SMILES:	NC(=O)C(Cl)Cl
Mol. weight [g/mol]:	127.96
CAS:	683-72-7

Physical Properties

Property code	Value	Unit	Source
gf	-122.81	kJ/mol	Joback Method
hf	-200.16	kJ/mol	Joback Method
hfus	12.60	kJ/mol	Joback Method
hvap	45.81	kJ/mol	Joback Method
log10ws	-0.78		Crippen Method
logp	0.275		Crippen Method
mcvol	75.070	ml/mol	McGowan Method
pc	5438.52	kPa	Joback Method
tb	445.98	K	Joback Method
tc	665.37	K	Joback Method
tf	290.33	K	Joback Method
vc	0.275	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	121.54	J/molxK	445.98	Joback Method
cpg	126.12	J/molxK	482.55	Joback Method
cpg	130.41	J/molxK	519.11	Joback Method
cpg	134.43	J/molxK	555.68	Joback Method
cpg	138.17	J/molxK	592.24	Joback Method

cpg	141.66	J/mol×K	628.81	Joback Method
cpg	144.90	J/mol×K	665.37	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	506.70	K	99.30	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C683727&Units=SI
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

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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