

Acetamide, 2-chloro-N,N-diethyl-

Other names:	«alpha»-Chloro-N,N-diethylacetamide N-Chloroacetyldiethylamine N,N-Diethyl-2-chloroacetamide N,N-Diethylchloroacetamide 2-Chloro-N,N-diethylacetamide CDEA TL 83 Diethylamid kyseliny chloroctove NSC 1726
Inchi:	InChI=1S/C6H12ClNO/c1-3-8(4-2)6(9)5-7/h3-5H2,1-2H3
InchiKey:	CQQUWTMMFMJEFE-UHFFFAOYSA-N
Formula:	C6H12ClNO
SMILES:	CCN(CC)C(=O)CCl
Mol. weight [g/mol]:	149.62
CAS:	2315-36-8

Physical Properties

Property code	Value	Unit	Source
gf	-30.43	kJ/mol	Joback Method
hf	-227.96	kJ/mol	Joback Method
hfus	20.11	kJ/mol	Joback Method
hvap	42.12	kJ/mol	Joback Method
log10ws	-0.83		Crippen Method
logp	1.094		Crippen Method
mcvol	119.190	ml/mol	McGowan Method
pc	3191.93	kPa	Joback Method
tb	440.42	K	Joback Method
tc	623.43	K	Joback Method
tf	269.70	K	Joback Method
vc	0.445	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	232.42	J/mol×K	440.42	Joback Method
cpg	243.32	J/mol×K	470.92	Joback Method
cpg	253.71	J/mol×K	501.42	Joback Method
cpg	263.58	J/mol×K	531.92	Joback Method
cpg	272.98	J/mol×K	562.43	Joback Method
cpg	281.90	J/mol×K	592.93	Joback Method
cpg	290.37	J/mol×K	623.43	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	422.20	K	7.30	NIST Webbook

Sources

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=C2315368&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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