

Acetamide, 2-chloro-N-(1-methylethyl)-

Other names:	N-Isopropyl chloroacetamide 2-chloro-N-(1-methylethyl)acetamide 2-Chloro-N-isopropylacetamide
Inchi:	InChI=1S/C5H10ClNO/c1-4(2)7-5(8)3-6/h4H,3H2,1-2H3,(H,7,8)
InchiKey:	GYPNJSBBOATUPK-UHFFFAOYSA-N
Formula:	C5H10ClNO
SMILES:	CC(C)N=C(O)CCl
Mol. weight [g/mol]:	135.59
CAS:	2895-21-8

Physical Properties

Property code	Value	Unit	Source
hf	-247.35	kJ/mol	Joback Method
hvap	50.79	kJ/mol	Joback Method
log10ws	-1.16		Crippen Method
logp	1.590		Crippen Method
mcvol	105.100	ml/mol	McGowan Method
pc	3322.01	kPa	Joback Method
tb	519.53	K	Joback Method
tc	713.17	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	26.05	kJ/mol	351.30	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=C2895218&Units=SI>

Legend

hf:	Enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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