Carbamic chloride, dimethyl-

Other names:	Carbamoyl chloride, dimethyl-
	Dimethylcarbamoyl chloride
	Dimethylcarbamyl chloride
	N,N-Dimethylcarbamidoyl chloride
	N,N-Dimethylcarbamoyl chloride
	(Dimethylamino)carbonyl chloride
	Carbamyl chloride, N,N-dimethyl-
	Chloroformic acid dimethylamide
	Dimethylcarbamic acid chloride
	Dimethylcarbamic chloride
	Dimethylcarbamidoyl chloride
	DMCC
	N,N-Dimethylcarbamyl chloride
	TL 389
	Chlorid kyseliny dimethylkarbaminove
	Dimethylamid kyseliny chlormravenci
	N,N-Dimethylaminocarbonyl chloride
	N,N-Dimethylcarbamic acid chloride
	Dimethylchloroformamide
	Dimethylkarbamoylchlorid
	Rcra waste number U097
	UN 2262
	Carbamic chloride, N,N-dimethyl-
	NSC 122671
Inchi:	InChI=1S/C3H6ClNO/c1-5(2)3(4)6/h1-2H3
InchiKey:	YIIMEMSDCNDGTB-UHFFFAOYSA-N
Formula:	C3H6ClNO
SMILES:	CN(C)C(=O)Cl
Mol. weight [g/mol]:	107.54
CAS:	79-44-7

Physical Properties

Property code	Value	Unit	Source
gf	-55.69	kJ/mol	Joback Method
hf	-166.04	kJ/mol	Joback Method
hfus	12.34	kJ/mol	Joback Method

hvap	35.45	kJ/mol	Joback Method
log10ws	-0.55		Crippen Method
logp	0.907		Crippen Method
mcvol	76.920	ml/mol	McGowan Method
pc	4553.06	kPa	Joback Method
tb	371.78	K	Joback Method
tc	558.59	K	Joback Method
tf	235.89	K	Joback Method
vc	0.277	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	123.40	J/mol×K	371.78	Joback Method
cpg	130.34	J/mol×K	402.92	Joback Method
cpg	136.93	J/mol×K	434.05	Joback Method
cpg	143.19	J/mol×K	465.19	Joback Method
cpg	149.12	J/mol×K	496.32	Joback Method
cpg	154.74	J/mol×K	527.46	Joback Method
cpg	160.05	J/mol×K	558.59	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	440.70	K	103.00	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C79447&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Joback Method: https://en.wikipedia.org/wiki/Joback_method

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