

Carbamic chloride, diethyl-

Other names:	Carbamoyl chloride, diethyl- Carbamidoyl chloride, diethyl- Diethylcarbamoyl chloride Diethylcarbamyl chloride N,N-Diethylcarbamoyl chloride Diethylamid kyseliny chlormravenci
Inchi:	InChI=1S/C5H10ClNO/c1-3-7(4-2)5(6)8/h3-4H2,1-2H3
InchiKey:	OFCCYDUUBNUJIB-UHFFFAOYSA-N
Formula:	C5H10ClNO
SMILES:	CCN(CC)C(=O)Cl
Mol. weight [g/mol]:	135.59
CAS:	88-10-8

Physical Properties

Property code	Value	Unit	Source
gf	-38.85	kJ/mol	Joback Method
hf	-207.32	kJ/mol	Joback Method
hfus	17.52	kJ/mol	Joback Method
hvap	39.90	kJ/mol	Joback Method
log10ws	-1.39		Crippen Method
logp	1.687		Crippen Method
mcvol	105.100	ml/mol	McGowan Method
pc	3568.53	kPa	Joback Method
tb	417.54	K	Joback Method
tc	602.05	K	Joback Method
tf	258.43	K	Joback Method
vc	0.389	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	193.76	J/mol×K	417.54	Joback Method
cpg	203.47	J/mol×K	448.29	Joback Method
cpg	212.71	J/mol×K	479.04	Joback Method

cpg	221.51	J/mol×K	509.79	Joback Method
cpg	229.86	J/mol×K	540.54	Joback Method
cpg	237.79	J/mol×K	571.30	Joback Method
cpg	245.32	J/mol×K	602.05	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	393.20	K	17.70	NIST Webbook

Sources

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=C88108&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

Latest version available from:

<https://www.cheméo.com/cid/49-971-0/Carbamic-chloride-diethyl.pdf>

Generated by Cheméo on 2024-04-25 20:15:37.553153084 +0000 UTC m=+16365386.473730395.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.