Suberoyl chloride

Other names:	Suberyl chloride
	Suberoyl dichloride
	Suberic acid dichloride
	Suberyl dichloride
	Octanedioyl dichloride
Inchi:	InChI=1S/C8H12Cl2O2/c9-7(11)5-3-1-2-4-6-8(10)12/h1-6H2
InchiKey:	PUIBKAHUQOOLSW-UHFFFAOYSA-N
Formula:	C8H12Cl2O2
SMILES:	O=C(Cl)CCCCCCC(=O)Cl
Mol. weight [g/mol]:	211.09
CAS:	10027-07-3

Physical Properties

Property code	Value	Unit	Source
gf	-265.22	kJ/mol	Joback Method
hf	-465.09	kJ/mol	Joback Method
hfus	28.07	kJ/mol	Joback Method
hvap	55.66	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	2.858		Crippen Method
mcvol	151.200	ml/mol	McGowan Method
pc	2673.54	kPa	Joback Method
rinpol	1460.00		NIST Webbook
rinpol	1460.00		NIST Webbook
tb	565.04	K	Joback Method
tc	760.72	K	Joback Method
tf	339.62	K	Joback Method
vc	0.594	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	326.44	J/mol×K	565.04	Joback Method
cpg	373.86	J/mol×K	728.11	Joback Method

cpg	365.43	J/mol×K	695.49	Joback Method
cpg	356.49	J/mol×K	662.88	Joback Method
cpg	347.03	J/mol×K	630.27	Joback Method
cpg	337.02	J/mol×K	597.65	Joback Method
cpg	381.80	J/mol×K	760.72	Joback Method
dvisc	0.0003317	Pa×s	565.04	Joback Method
dvisc	0.0004214	Pa×s	527.47	Joback Method
dvisc	0.0005553	Pa×s	489.90	Joback Method
dvisc	0.0007662	Pa×s	452.33	Joback Method
dvisc	0.0011207	Pa×s	414.76	Joback Method
dvisc	0.0017682	Pa×s	377.19	Joback Method
dvisc	0.0030858	Pa×s	339.62	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10027073&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume