

1-chloroheptyl chloroacetate

Other names:	1-Heptanol, 1-chloro, chloroacetate
Inchi:	InChI=1S/C9H16Cl2O2/c1-2-3-4-5-6-8(11)13-9(12)7-10/h8H,2-7H2,1H3
InchiKey:	BLTDGIWAGRXCNH-UHFFFAOYSA-N
Formula:	C9H16Cl2O2
SMILES:	CCCCCCC(Cl)OC(=O)CCl
Mol. weight [g/mol]:	227.13

Physical Properties

Property code	Value	Unit	Source
gf	-235.32	kJ/mol	Joback Method
hf	-510.65	kJ/mol	Joback Method
hfus	26.72	kJ/mol	Joback Method
hvap	53.17	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.304		Crippen Method
mcvol	169.590	ml/mol	McGowan Method
pc	2263.26	kPa	Joback Method
rinpol	1393.00		NIST Webbook
rinpol	1395.00		NIST Webbook
rinpol	1400.00		NIST Webbook
rinpol	1400.00		NIST Webbook
rinpol	1399.00		NIST Webbook
ripol	1967.00		NIST Webbook
ripol	1974.00		NIST Webbook
ripol	1976.00		NIST Webbook
ripol	1967.00		NIST Webbook
tb	556.03	K	Joback Method
tc	743.61	K	Joback Method
tf	308.19	K	Joback Method
vc	0.655	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	380.33	J/molxK	556.03	Joback Method
cpg	392.87	J/molxK	587.29	Joback Method
cpg	404.84	J/molxK	618.56	Joback Method
cpg	416.25	J/molxK	649.82	Joback Method
cpg	427.10	J/molxK	681.08	Joback Method
cpg	437.41	J/molxK	712.35	Joback Method
cpg	447.18	J/molxK	743.61	Joback Method
dvisc	0.0034137	Paxs	308.19	Joback Method
dvisc	0.0016431	Paxs	349.50	Joback Method
dvisc	0.0009231	Paxs	390.80	Joback Method
dvisc	0.0005790	Paxs	432.11	Joback Method
dvisc	0.0003940	Paxs	473.42	Joback Method
dvisc	0.0002852	Paxs	514.72	Joback Method
dvisc	0.0002166	Paxs	556.03	Joback Method

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=R111656&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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