

7-chloroheptyl dichloroacetate

Other names:	1-Heptanol, 7-chloro, dichloroacetate
Inchi:	InChI=1S/C9H15Cl3O2/c10-6-4-2-1-3-5-7-14-9(13)8(11)12/h8H,1-7H2
InchiKey:	LUGGQXMJRCRYAK-UHFFFAOYSA-N
Formula:	C9H15Cl3O2
SMILES:	O=C(OCCCCCCCCl)C(Cl)Cl
Mol. weight [g/mol]:	261.57

Physical Properties

Property code	Value	Unit	Source
gf	-247.25	kJ/mol	Joback Method
hf	-526.39	kJ/mol	Joback Method
hfus	30.92	kJ/mol	Joback Method
hvap	57.55	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	3.523		Crippen Method
mcvol	181.830	ml/mol	McGowan Method
pc	2185.64	kPa	Joback Method
rinpol	1654.00		NIST Webbook
rinpol	1661.00		NIST Webbook
rinpol	1636.00		NIST Webbook
rinpol	1646.00		NIST Webbook
ripol	2377.00		NIST Webbook
ripol	2409.00		NIST Webbook
ripol	2395.00		NIST Webbook
tb	593.46	K	Joback Method
tc	785.47	K	Joback Method
tf	338.11	K	Joback Method
vc	0.705	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.89	J/molxK	593.46	Joback Method
cpg	418.76	J/molxK	625.46	Joback Method

cpg	430.04	J/molxK	657.46	Joback Method
cpg	440.73	J/molxK	689.46	Joback Method
cpg	450.85	J/molxK	721.47	Joback Method
cpg	460.41	J/molxK	753.47	Joback Method
cpg	469.43	J/molxK	785.47	Joback Method
dvisc	0.0028129	Paxs	338.11	Joback Method
dvisc	0.0014150	Paxs	380.67	Joback Method
dvisc	0.0008173	Paxs	423.23	Joback Method
dvisc	0.0005219	Paxs	465.79	Joback Method
dvisc	0.0003592	Paxs	508.34	Joback Method
dvisc	0.0002619	Paxs	550.90	Joback Method
dvisc	0.0001999	Paxs	593.46	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R111849&Units=SI
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

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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