

4-chlorohexyl trichloroacetate

Other names:	1-Hexanol, 4-chloro, trichloroacetate
Inchi:	InChI=1S/C8H12Cl4O2/c1-2-6(9)4-3-5-14-7(13)8(10,11)12/h6H,2-5H2,1H3
InchiKey:	UVKRYBQOTSDKNR-UHFFFAOYSA-N
Formula:	C8H12Cl4O2
SMILES:	CCC(Cl)CCCOC(=O)C(Cl)(Cl)Cl
Mol. weight [g/mol]:	281.99

Physical Properties

Property code	Value	Unit	Source
gf	-264.76	kJ/mol	Joback Method
hf	-530.24	kJ/mol	Joback Method
hfus	25.11	kJ/mol	Joback Method
hvap	58.41	kJ/mol	Joback Method
log10ws	-3.86		Crippen Method
logp	3.697		Crippen Method
mcvol	179.980	ml/mol	McGowan Method
pc	2354.20	kPa	Joback Method
rinpol	1537.00		NIST Webbook
rinpol	1549.00		NIST Webbook
rinpol	1558.00		NIST Webbook
rinpol	1537.00		NIST Webbook
rinpol	1566.00		NIST Webbook
ripol	2141.00		NIST Webbook
ripol	2159.00		NIST Webbook
ripol	2119.00		NIST Webbook
ripol	2119.00		NIST Webbook
tb	604.78	K	Joback Method
tc	814.70	K	Joback Method
tf	359.18	K	Joback Method
vc	0.686	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	388.10	J/molxK	604.78	Joback Method
cpg	398.94	J/molxK	639.77	Joback Method
cpg	409.06	J/molxK	674.75	Joback Method
cpg	418.49	J/molxK	709.74	Joback Method
cpg	427.28	J/molxK	744.73	Joback Method
cpg	435.44	J/molxK	779.72	Joback Method
cpg	443.01	J/molxK	814.70	Joback Method
dvisc	0.0027302	Paxs	359.18	Joback Method
dvisc	0.0013799	Paxs	400.11	Joback Method
dvisc	0.0007916	Paxs	441.05	Joback Method
dvisc	0.0004991	Paxs	481.98	Joback Method
dvisc	0.0003382	Paxs	522.91	Joback Method
dvisc	0.0002425	Paxs	563.85	Joback Method
dvisc	0.0001819	Paxs	604.78	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R111998&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

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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