Chloroacetic acid, 2,3,4,6-tetrachlorophenyl ester

Inchi: InChI=1S/C8H3Cl5O2/c9-2-5(14)15-8-4(11)1-3(10)6(12)7(8)13/h1H,2H2
InchiKey: FTYGKQSYRRJQMV-UHFFFAOYSA-N
Formula: C8H3Cl5O2
SMILES: O=C(CCl)Oc1c(Cl)cc(Cl)c(Cl)c1Cl
Mol. weight [g/mol]: 308.37

Physical Properties

Property code	Value	Unit	Source
gf	-203.20	kJ/mol	Joback Method
hf	-341.30	kJ/mol	Joback Method
hfus	32.73	kJ/mol	Joback Method
hvap	69.41	kJ/mol	Joback Method
log10ws	-4.68		Crippen Method
logp	4.444		Crippen Method
mcvol	168.460	ml/mol	McGowan Method
pc	2909.25	kPa	Joback Method
rinpol	1899.00		NIST Webbook
tb	692.48	K	Joback Method
tc	935.41	K	Joback Method
tf	478.18	K	Joback Method
vc	0.644	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	312.75	J/mol×K	692.48	Joback Method
cpg	319.50	J/mol×K	732.97	Joback Method
cpg	325.72	J/mol×K	773.46	Joback Method
cpg	331.38	J/mol×K	813.94	Joback Method
cpg	336.49	J/mol×K	854.43	Joback Method
cpg	341.04	J/mol×K	894.92	Joback Method
cpg	345.04	J/mol×K	935.41	Joback Method
dvisc	0.0007537	Pa×s	478.18	Joback Method
dvisc	0.0005541	Pa×s	513.90	Joback Method

dvisc	0.0004239	Pa×s	549.61	Joback Method
dvisc	0.0003351	Pa×s	585.33	Joback Method
dvisc	0.0002722	Pa×s	621.05	Joback Method
dvisc	0.0002261	Pa×s	656.76	Joback Method
dvisc	0.0001915	Pa×s	692.48	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=U354614&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
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