Carbonic acid, propyl 3,4-dichlorophenyl ester

Inchi: InChI=1S/C10H10Cl2O3/c1-2-5-14-10(13)15-7-3-4-8(11)9(12)6-7/h3-4,6H,2,5H2,1H3
InchiKey: KPKUZTHEGNXGQU-UHFFFAOYSA-N
Formula: C10H10Cl2O3
SMILES: CCCOC(=O)Oc1ccc(Cl)c(Cl)c1
Mol. weight [g/mol]: 249.09

Physical Properties

Property code	Value	Unit	Source
gf	-236.31	kJ/mol	Joback Method
hf	-444.64	kJ/mol	Joback Method
hfus	27.29	kJ/mol	Joback Method
hvap	61.79	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	3.919		Crippen Method
mcvol	165.790	ml/mol	McGowan Method
pc	2707.03	kPa	Joback Method
rinpol	1689.00		NIST Webbook
rinpol	1689.00		NIST Webbook
tb	638.41	K	Joback Method
tc	858.50	K	Joback Method
tf	408.15	K	Joback Method
vc	0.627	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.26	J/mol×K	638.41	Joback Method
cpg	383.53	J/mol×K	675.09	Joback Method
cpg	394.13	J/mol×K	711.77	Joback Method
cpg	404.04	J/mol×K	748.45	Joback Method
cpg	413.26	J/mol×K	785.14	Joback Method
cpg	421.79	J/mol×K	821.82	Joback Method
cpg	429.62	J/mol×K	858.50	Joback Method
dvisc	0.0009285	Pa×s	408.15	Joback Method

dvisc	0.0006073	Pa×s	446.53	Joback Method
dvisc	0.0004249	Pa×s	484.90	Joback Method
dvisc	0.0003132	Pa×s	523.28	Joback Method
dvisc	0.0002407	Pa×s	561.66	Joback Method
dvisc	0.0001913	Pa×s	600.03	Joback Method
dvisc	0.0001564	Pa×s	638.41	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=U357822&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