Cyclopropanecarboxylic acid, 2,4,5-trichlorophenyl ester

Inchi: InChI=1S/C10H7Cl3O2/c11-6-3-8(13)9(4-7(6)12)15-10(14)5-1-2-5/h3-5H,1-2H2

InchiKey: JTXKTAJEYVQEMR-UHFFFAOYSA-N

Formula: C10H7Cl3O2

SMILES: O=C(Oc1cc(Cl)c(Cl)cc1Cl)C1CC1

Mol. weight [g/mol]: 265.52

Physical Properties

Property code	Value	Unit	Source
gf	-92.12	kJ/mol	Joback Method
hf	-266.83	kJ/mol	Joback Method
hfus	28.04	kJ/mol	Joback Method
hvap	64.34	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	3.962		Crippen Method
mcvol	161.300	ml/mol	McGowan Method
pc	2995.87	kPa	Joback Method
rinpol	1820.00		NIST Webbook
tb	665.14	K	Joback Method
tc	908.07	K	Joback Method
tf	446.30	K	Joback Method
vc	0.616	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.10	J/mol×K	665.14	Joback Method
cpg	364.59	J/mol×K	705.63	Joback Method
cpg	374.28	J/mol×K	746.12	Joback Method
cpg	383.20	J/mol×K	786.61	Joback Method
cpg	391.42	J/mol×K	827.10	Joback Method
cpg	398.97	J/mol×K	867.58	Joback Method
cpg	405.92	J/mol×K	908.07	Joback Method
dvisc	0.0014407	Pa×s	446.30	Joback Method
dvisc	0.0011180	Pa×s	482.77	Joback Method

dvisc	0.0008990	Pa×s	519.25	Joback Method
dvisc	0.0007439	Pa×s	555.72	Joback Method
dvisc	0.0006301	Pa×s	592.19	Joback Method
dvisc	0.0005441	Pa×s	628.67	Joback Method
dvisc	0.0004775	Pa×s	665.14	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U354664&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume