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

Inchi: InChI=1S/C10H6Cl4O2/c11-5-3-6(12)9(8(14)7(5)13)16-10(15)4-1-2-4/h3-4H,1-2H2

InchiKey: SCFFYKVQJXROAN-UHFFFAOYSA-N

Formula: C10H6Cl4O2

SMILES: O=C(Oc1c(Cl)cc(Cl)c(Cl)c1Cl)C1CC1

Mol. weight [g/mol]: 299.96

Physical Properties

Property code	Value	Unit	Source
gf	-113.68	kJ/mol	Joback Method
hf	-294.04	kJ/mol	Joback Method
hfus	31.85	kJ/mol	Joback Method
hvap	69.39	kJ/mol	Joback Method
log10ws	-5.02		Crippen Method
logp	4.616		Crippen Method
mcvol	173.540	ml/mol	McGowan Method
pc	2832.35	kPa	Joback Method
rinpol	1954.00		NIST Webbook
tb	707.55	K	Joback Method
tc	953.78	K	Joback Method
tf	488.74	K	Joback Method
vc	0.664	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.69	J/mol×K	707.55	Joback Method
cpg	382.05	J/mol×K	748.59	Joback Method
cpg	390.67	J/mol×K	789.63	Joback Method
cpg	398.59	J/mol×K	830.66	Joback Method
cpg	405.87	J/mol×K	871.70	Joback Method
cpg	412.53	J/mol×K	912.74	Joback Method
cpg	418.64	J/mol×K	953.78	Joback Method
dvisc	0.0012729	Pa×s	488.74	Joback Method
dvisc	0.0010114	Pa×s	525.21	Joback Method

dvisc	0.0008281	Pa×s	561.68	Joback Method
dvisc	0.0006947	Pa×s	598.14	Joback Method
dvisc	0.0005947	Pa×s	634.61	Joback Method
dvisc	0.0005177	Pa×s	671.08	Joback Method
dvisc	0.0004572	Pa×s	707.55	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U354665&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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume