Cyclopropanecarboxylic acid, trans-2-phenyl-, 2,3-dichlorophenyl ester

Inchi: InChI=1S/C16H12Cl2O2/c17-13-7-4-8-14(15(13)18)20-16(19)12-9-11(12)10-5-2-1-3-6-10

InchiKey: WXOXQPYTRYTGOM-UHFFFAOYSA-N

Formula: C16H12Cl2O2

SMILES: O=C(Oc1cccc(Cl)c1Cl)C1CC1c1ccccc1

Mol. weight [g/mol]: 307.17

Physical Properties

Property code	Value	Unit	Source
gf	84.66	kJ/mol	Joback Method
hf	-147.27	kJ/mol	Joback Method
hfus	34.89	kJ/mol	Joback Method
hvap	74.62	kJ/mol	Joback Method
log10ws	-5.22		Crippen Method
logp	4.703		Crippen Method
mcvol	209.840	ml/mol	McGowan Method
pc	2372.59	kPa	Joback Method
rinpol	2396.00		NIST Webbook
rinpol	2396.00		NIST Webbook
tb	782.02	K	Joback Method
tc	1036.40	K	Joback Method
tf	493.66	K	Joback Method
vc	0.793	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	553.28	J/mol×K	782.02	Joback Method
cpg	567.07	J/mol×K	824.42	Joback Method
cpg	579.62	J/mol×K	866.81	Joback Method
cpg	591.04	J/mol×K	909.21	Joback Method
cpg	601.42	J/mol×K	951.61	Joback Method
cpg	610.85	J/mol×K	994.00	Joback Method
cpg	619.42	J/mol×K	1036.40	Joback Method
dvisc	0.0013593	Pa×s	493.66	Joback Method

dvisc	0.0009963	Pa×s	541.72	Joback Method
dvisc	0.0007682	Pa×s	589.78	Joback Method
dvisc	0.0006160	Pa×s	637.84	Joback Method
dvisc	0.0005094	Pa×s	685.90	Joback Method
dvisc	0.0004319	Pa×s	733.96	Joback Method
dvisc	0.0003737	Pa×s	782.02	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406846&Units=SI

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