Cyclopropanecarboxylic acid, trans-2-phenyl-, pentyl ester

Inchi: InChI=1S/C15H20O2/c1-2-3-7-10-17-15(16)14-11-13(14)12-8-5-4-6-9-12/h4-6,8-9,13-14
InchiKey: VRFWRIWWEFJWRH-UHFFFAOYSA-N
Formula: C15H20O2
SMILES: CCCCCOC(=O)C1CC1c1ccccc1
Mol. weight [g/mol]: 232.32

Physical Properties

Property code	Value	Unit	Source
gf	6.95	kJ/mol	Joback Method
hf	-308.74	kJ/mol	Joback Method
hfus	30.64	kJ/mol	Joback Method
hvap	60.02	kJ/mol	Joback Method
log10ws	-3.68		Crippen Method
logp	3.523		Crippen Method
mcvol	195.030	ml/mol	McGowan Method
pc	2096.50	kPa	Joback Method
rinpol	1816.00		NIST Webbook
rinpol	1816.00		NIST Webbook
tb	647.64	K	Joback Method
tc	857.63	K	Joback Method
tf	371.09	K	Joback Method
vc	0.748	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	533.93	J/mol×K	647.64	Joback Method
cpg	551.66	J/mol×K	682.64	Joback Method
cpg	568.29	J/mol×K	717.64	Joback Method
cpg	583.88	J/mol×K	752.63	Joback Method
cpg	598.46	J/mol×K	787.63	Joback Method
cpg	612.11	J/mol×K	822.63	Joback Method
cpg	624.86	J/mol×K	857.63	Joback Method
dvisc	0.0019670	Pa×s	371.09	Joback Method

dvisc	0.0013116	Pa×s	417.18	Joback Method
dvisc	0.0009481	Pa×s	463.27	Joback Method
dvisc	0.0007268	Pa×s	509.37	Joback Method
dvisc	0.0005822	Pa×s	555.46	Joback Method
dvisc	0.0004826	Pa×s	601.55	Joback Method
dvisc	0.0004108	Pa×s	647.64	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405997&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