

Cyclopropanecarboxylic acid, trans-2-phenyl-, 3-methylbut-2-yl ester

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

Physical Properties

Property code	Value	Unit	Source
gf	2.07	kJ/mol	Joback Method
hf	-319.30	kJ/mol	Joback Method
hfus	23.59	kJ/mol	Joback Method
hvap	59.24	kJ/mol	Joback Method
log10ws	-3.55		Crippen Method
logp	3.378		Crippen Method
mcvol	195.030	ml/mol	McGowan Method
pc	2127.56	kPa	Joback Method
rinpol	1709.00		NIST Webbook
rinpol	1709.00		NIST Webbook
tb	646.76	K	Joback Method
tc	865.01	K	Joback Method
tf	341.09	K	Joback Method
vc	0.736	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	534.81	J/molxK	646.76	Joback Method
cpg	553.32	J/molxK	683.14	Joback Method
cpg	570.62	J/molxK	719.51	Joback Method
cpg	586.77	J/molxK	755.89	Joback Method
cpg	601.82	J/molxK	792.26	Joback Method
cpg	615.84	J/molxK	828.64	Joback Method
cpg	628.88	J/molxK	865.01	Joback Method
dvisc	0.0025930	Paxs	341.09	Joback Method

dvisc	0.0015000	Paxs	392.04	Joback Method
dvisc	0.0009842	Paxs	442.98	Joback Method
dvisc	0.0007044	Paxs	493.93	Joback Method
dvisc	0.0005366	Paxs	544.87	Joback Method
dvisc	0.0004283	Paxs	595.82	Joback Method
dvisc	0.0003542	Paxs	646.76	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=U406835&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

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