

Carbonic acid, allyl 2-biphenyl ester

Inchi:	InChI=1S/C16H14O3/c1-2-12-18-16(17)19-15-11-7-6-10-14(15)13-8-4-3-5-9-13/h2-11H,1
InchiKey:	ORHHFGAUTYXEMC-UHFFFAOYSA-N
Formula:	C16H14O3
SMILES:	C=CCOC(=O)Oc1ccccc1-c1ccccc1
Mol. weight [g/mol]:	254.28

Physical Properties

Property code	Value	Unit	Source
gf	47.95	kJ/mol	Joback Method
hf	-163.57	kJ/mol	Joback Method
hfus	27.58	kJ/mol	Joback Method
hvap	67.32	kJ/mol	Joback Method
log10ws	-5.14		Crippen Method
logp	4.055		Crippen Method
mcvol	197.790	ml/mol	McGowan Method
pc	2412.37	kPa	Joback Method
rinsol	1889.00		NIST Webbook
tb	719.21	K	Joback Method
tc	954.17	K	Joback Method
tf	428.07	K	Joback Method
vc	0.739	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	520.28	J/molxK	719.21	Joback Method
cpg	535.17	J/molxK	758.37	Joback Method
cpg	548.87	J/molxK	797.53	Joback Method
cpg	561.42	J/molxK	836.69	Joback Method
cpg	572.86	J/molxK	875.85	Joback Method
cpg	583.23	J/molxK	915.01	Joback Method
cpg	592.55	J/molxK	954.17	Joback Method
dvisc	0.0008475	Paxs	428.07	Joback Method
dvisc	0.0004954	Paxs	476.59	Joback Method

dvisc	0.0003198	Paxs	525.12	Joback Method
dvisc	0.0002223	Paxs	573.64	Joback Method
dvisc	0.0001635	Paxs	622.16	Joback Method
dvisc	0.0001258	Paxs	670.69	Joback Method
dvisc	0.0001002	Paxs	719.21	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U357382&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

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