

Cyclopropanecarboxylic acid, 4-biphenyl ester

Inchi: InChI=1S/C16H14O2/c17-16(14-6-7-14)18-15-10-8-13(9-11-15)12-4-2-1-3-5-12/h1-5,8-1
InchiKey: UNMBXFPVBYYKPX-UHFFFAOYSA-N
Formula: C16H14O2
SMILES: O=C(Oc1ccc(-c2ccccc2)cc1)C1CC1
Mol. weight [g/mol]: 238.28

Physical Properties

Property code	Value	Unit	Source
gf	125.86	kJ/mol	Joback Method
hf	-83.98	kJ/mol	Joback Method
hfus	25.81	kJ/mol	Joback Method
hvap	65.49	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	3.669		Crippen Method
mcvol	185.360	ml/mol	McGowan Method
pc	2681.86	kPa	Joback Method
rinpol	2148.00		NIST Webbook
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tb	706.85	K	Joback Method
tc	956.40	K	Joback Method
tf	425.54	K	Joback Method
vc	0.697	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	502.29	J/mol×K	706.85	Joback Method
cpg	518.58	J/mol×K	748.44	Joback Method
cpg	533.51	J/mol×K	790.03	Joback Method
cpg	547.20	J/mol×K	831.62	Joback Method
cpg	559.74	J/mol×K	873.21	Joback Method
cpg	571.23	J/mol×K	914.80	Joback Method
cpg	581.78	J/mol×K	956.40	Joback Method
dvisc	0.0016095	Paxs	425.54	Joback Method

dvisc	0.0010865	Paxs	472.43	Joback Method
dvisc	0.0007874	Paxs	519.31	Joback Method
dvisc	0.0006019	Paxs	566.20	Joback Method
dvisc	0.0004794	Paxs	613.08	Joback Method
dvisc	0.0003943	Paxs	659.97	Joback Method
dvisc	0.0003329	Paxs	706.85	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=U354666&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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