Cyclopropanecarboxylic acid, 2-naphthyl ester

Inchi: InChI=1S/C14H12O2/c15-14(11-5-6-11)16-13-8-7-10-3-1-2-4-12(10)9-13/h1-4,7-9,11H,5
InchiKey: UAAAZXARPPSLNV-UHFFFAOYSA-N
Formula: C14H12O2
SMILES: O=C(Oc1ccc2ccccc2c1)C1CC1
Mol. weight [g/mol]: 212.24

Physical Properties

Property code	Value	Unit	Source
gf	103.26	kJ/mol	Joback Method
hf	-88.16	kJ/mol	Joback Method
hfus	23.61	kJ/mol	Joback Method
hvap	60.41	kJ/mol	Joback Method
log10ws	-4.08		Crippen Method
logp	3.155		Crippen Method
mcvol	161.480	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
rinpol	1841.00		NIST Webbook
tb	653.39	K	Joback Method
tc	895.47	K	Joback Method
tf	409.28	K	Joback Method
vc	0.615	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.73	J/mol×K	653.39	Joback Method
cpg	433.69	J/mol×K	693.74	Joback Method
cpg	447.47	J/mol×K	734.08	Joback Method
cpg	460.18	J/mol×K	774.43	Joback Method
cpg	471.92	J/mol×K	814.78	Joback Method
cpg	482.81	J/mol×K	855.12	Joback Method
cpg	492.95	J/mol×K	895.47	Joback Method
dvisc	0.0019208	Pa×s	409.28	Joback Method
dvisc	0.0014847	Pa×s	449.96	Joback Method

dvisc	0.0011977	Pa×s	490.65	Joback Method
dvisc	0.0009985	Pa×s	531.34	Joback Method
dvisc	0.0008542	Pa×s	572.02	Joback Method
dvisc	0.0007461	Pa×s	612.70	Joback Method
dvisc	0.0006627	Pa×s	653.39	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U307528&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