1,1'-Biphenyl, 3,5-dichloro-4'-isopropyl

Inchi: InChI=1S/C15H14Cl2/c1-10(2)11-3-5-12(6-4-11)13-7-14(16)9-15(17)8-13/h3-10H,1-2H3
InchiKey: AXXUAYWMQQEWQC-UHFFFAOYSA-N
Formula: C15H14Cl2
SMILES: CC(C)c1ccc(-c2cc(Cl)cc(Cl)c2)cc1
Mol. weight [g/mol]: 265.18

Physical Properties

Property code	Value	Unit	Source
gf	245.05	kJ/mol	Joback Method
hf	48.96	kJ/mol	Joback Method
hfus	26.39	kJ/mol	Joback Method
hvap	63.90	kJ/mol	Joback Method
log10ws	-6.63		Crippen Method
logp	5.784		Crippen Method
mcvol	199.170	ml/mol	McGowan Method
pc	2252.53	kPa	Joback Method
rinpol	2053.00		NIST Webbook
tb	685.32	K	Joback Method
tc	933.85	K	Joback Method
tf	394.05	K	Joback Method
vc	0.751	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	474.82	J/mol×K	685.32	Joback Method
cpg	539.87	J/mol×K	892.43	Joback Method
cpg	528.96	J/mol×K	851.01	Joback Method
cpg	517.07	J/mol×K	809.59	Joback Method
cpg	504.13	J/mol×K	768.16	Joback Method
cpg	490.06	J/mol×K	726.74	Joback Method
cpg	549.86	J/mol×K	933.85	Joback Method
dvisc	0.0001347	Pa×s	685.32	Joback Method
dvisc	0.0001686	Pa×s	636.77	Joback Method

dvisc	0.0002189	Pa×s	588.23	Joback Method
dvisc	0.0002980	Pa×s	539.68	Joback Method
dvisc	0.0004311	Pa×s	491.14	Joback Method
dvisc	0.0006763	Pa×s	442.60	Joback Method
dvisc	0.0011855	Pa×s	394.05	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R146320&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

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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