

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

Inchi:	InChI=1S/C15H14Cl2/c1-10(2)11-4-3-5-12(6-11)13-7-14(16)9-15(17)8-13/h3-10H,1-2H3
InchiKey:	DSZFGTSITMUDEZ-UHFFFAOYSA-N
Formula:	C15H14Cl2
SMILES:	CC(C)c1cccc(-c2cc(Cl)cc(Cl)c2)c1
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	2019.00		NIST Webbook
rinpol	2019.00		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/molxK	685.32	Joback Method
cpg	539.87	J/molxK	892.43	Joback Method
cpg	528.96	J/molxK	851.01	Joback Method
cpg	517.07	J/molxK	809.59	Joback Method
cpg	504.13	J/molxK	768.16	Joback Method
cpg	490.06	J/molxK	726.74	Joback Method
cpg	549.86	J/molxK	933.85	Joback Method
dvisc	0.0001347	Paxs	685.32	Joback Method

dvisc	0.0001686	Paxs	636.77	Joback Method
dvisc	0.0002189	Paxs	588.23	Joback Method
dvisc	0.0002980	Paxs	539.68	Joback Method
dvisc	0.0004311	Paxs	491.14	Joback Method
dvisc	0.0006763	Paxs	442.60	Joback Method
dvisc	0.0011855	Paxs	394.05	Joback Method

Sources

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=R146315&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	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
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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