1,1':3',1'':3'',1''':3''',1'''':3'''',1'''''-Sexiphenyl

Other names: m-Sexiphenyl
1,1'-Biphenyl, 3,3'-bis([1,1'-biphenyl]-3-yl)-
Inchi: InChI=1S/C36H26/c1-3-11-27(12-4-1)29-15-7-17-31(23-29)33-19-9-21-35(25-33)36-22-1
InchiKey: SPNUFGCNWPEERB-UHFFFAOYSA-N
Formula: C36H26
SMILES: c1ccc(-c2cccc(-c3cccc(-c4cccc(-c5cccc(-c6ccccc6)c5)c4)c3)c2)cc1
Mol. weight [g/mol]: 458.59
CAS: 4740-51-6

Physical Properties

Property code	Value	Unit	Source
gf	888.18	kJ/mol	Joback Method
hf	586.93	kJ/mol	Joback Method
hfus	51.69	kJ/mol	Joback Method
hvap	112.03	kJ/mol	Joback Method
log10ws	-14.49		Crippen Method
logp	10.022		Crippen Method
mcvol	375.540	ml/mol	McGowan Method
pc	1324.24	kPa	Joback Method
tb	1203.08	K	Joback Method
tc	1502.25	K	Joback Method
tf	704.08	K	Joback Method
vc	1.403	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1223.68	J/mol×K	1203.08	Joback Method
cpg	1238.09	J/mol×K	1252.94	Joback Method
cpg	1252.09	J/mol×K	1302.80	Joback Method
cpg	1266.01	J/mol×K	1352.66	Joback Method
cpg	1280.21	J/mol×K	1402.52	Joback Method
cpg	1295.04	J/mol×K	1452.38	Joback Method
cpg	1310.85	J/mol×K	1502.25	Joback Method

dvisc	0.0001288	Pa×s	704.08	Joback Method
dvisc	0.0000740	Pa×s	787.25	Joback Method
dvisc	0.0000473	Pa×s	870.41	Joback Method
dvisc	0.0000326	Pa×s	953.58	Joback Method
dvisc	0.0000239	Pa×s	1036.75	Joback Method
dvisc	0.0000184	Pa×s	1119.91	Joback Method
dvisc	0.0000146	Pa×s	1203.08	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4740516&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume