1,1':4',1'':4'',1''':4''',1'''':4'''',1'''''-Sexiphenyl

Other names:	p-Quaterphenyl, 4,4'''-diphenyl-
	p-Sexiphenyl
	1,1':4',1'':4'',1'''-Quaterphenyl, 4,4'''-diphenyl-
	p-Hexaphenyl
	p-Sexiphenylene
Inchi:	InChI=1S/C36H26/c1-3-7-27(8-4-1)29-11-15-31(16-12-29)33-19-23-35(24-20-33)36-25-2
InchiKey:	ZEMDSNVUUOCIED-UHFFFAOYSA-N
Formula:	C36H26
SMILES:	c1ccc(-c2ccc(-c3ccc(-c4ccc(-c5ccc(-c6ccccc6)cc5)cc4)cc3)cc2)cc1
Mol. weight [g/mol]:	458.59
CAS:	4499-83-6

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
ie	7.67 ± 0.05	eV	NIST Webbook
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

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C4499836&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
ie: Ionization energy
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