Benzene, 1,4-bis(p-phenoxyphenoxy)-

Inchi: InChI=1S/C30H22O4/c1-3-7-23(8-4-1)31-25-11-15-27(16-12-25)33-29-19-21-30(22-20-2

InchiKey: QJUDDNWGFYFRFN-UHFFFAOYSA-N

Formula: C30H22O4

SMILES: c1ccc(Oc2ccc(Oc3ccc(Oc4ccc(Oc5ccccc5)cc4)cc3)cc2)cc1

Mol. weight [g/mol]:   446.49

CAS: 2455-43-8

Physical Properties

Property code	Value	Unit	Source
gf	314.88	kJ/mol	Joback Method
hf	-43.17	kJ/mol	Joback Method
hfus	47.25	kJ/mol	Joback Method
hvap	105.38	kJ/mol	Joback Method
log10ws	-8.01		Crippen Method
logp	8.856		Crippen Method
mcvol	338.240	ml/mol	McGowan Method
pc	1530.66	kPa	Joback Method
tb	1123.82	K	Joback Method
tc	1400.77	K	Joback Method
tf	686.44	K	Joback Method
vc	1.248	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1071.36	J/mol×K	1123.82	Joback Method
cpg	1090.59	J/mol×K	1354.61	Joback Method
cpg	1090.49	J/mol×K	1308.45	Joback Method
cpg	1088.63	J/mol×K	1262.30	Joback Method
cpg	1084.89	J/mol×K	1216.14	Joback Method
cpg	1079.17	J/mol×K	1169.98	Joback Method
cpg	1089.03	J/mol×K	1400.77	Joback Method
dvisc	0.0000096	Pa×s	1123.82	Joback Method
dvisc	0.0000120	Pa×s	1050.92	Joback Method

dvisc	0.0000155	Pa×s	978.03	Joback Method
dvisc	0.0000209	Pa×s	905.13	Joback Method
dvisc	0.0000298	Pa×s	832.23	Joback Method
dvisc	0.0000453	Pa×s	759.34	Joback Method
dvisc	0.0000753	Pa×s	686.44	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2455438&Units=SI

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