1,6-Di-(4-bromophenoxy)hexane

Other names: benzene, 1,1'-[1,6-hexanediylbis(oxy)]bis-4-bromo-
Inchi: InChI=1S/C18H20Br2O2/c19-15-5-9-17(10-6-15)21-13-3-1-2-4-14-22-18-11-7-16(20)8-12
InchiKey: RCTHJRFRURADHF-UHFFFAOYSA-N
Formula: C18H20Br2O2
SMILES: Brc1ccc(OCCCCCCOc2ccc(Br)cc2)cc1
Mol. weight [g/mol]: 428.16
CAS: 6943-11-9

Physical Properties

Property code	Value	Unit	Source
gf	124.88	kJ/mol	Joback Method
hf	-176.51	kJ/mol	Joback Method
hfus	42.63	kJ/mol	Joback Method
hvap	79.23	kJ/mol	Joback Method
log10ws	-7.36		Crippen Method
logp	6.230		Crippen Method
mcvol	263.700	ml/mol	McGowan Method
pc	2047.46	kPa	Joback Method
tb	851.72	K	Joback Method
tc	1088.92	K	Joback Method
tf	534.56	K	Joback Method
vc	0.988	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	713.00	J/mol×K	851.72	Joback Method
cpg	727.06	J/mol×K	891.25	Joback Method
cpg	739.97	J/mol×K	930.79	Joback Method
cpg	751.79	J/mol×K	970.32	Joback Method
cpg	762.57	J/mol×K	1009.85	Joback Method
cpg	772.38	J/mol×K	1049.38	Joback Method
cpg	781.27	J/mol×K	1088.92	Joback Method
dvisc	0.0003542	Pa×s	534.56	Joback Method

dvisc	0.0002217	Pa×s	587.42	Joback Method
dvisc	0.0001499	Pa×s	640.28	Joback Method
dvisc	0.0001076	Pa×s	693.14	Joback Method
dvisc	0.0000810	Pa×s	746.00	Joback Method
dvisc	0.0000633	Pa×s	798.86	Joback Method
dvisc	0.0000510	Pa×s	851.72	Joback Method

Sources

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=C6943119&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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