1,3-Bis(2-methylphenoxy)-2-propanol

Inchi: InChI=1S/C17H20O3/c1-13-7-3-5-9-16(13)19-11-15(18)12-20-17-10-6-4-8-14(17)2/h3-10
InchiKey: GZSFOYFMSYYKJH-UHFFFAOYSA-N
Formula: C17H20O3
SMILES: Cc1ccccc1OCC(O)COc1ccccc1C
Mol. weight [g/mol]: 272.34
CAS: 17181-49-6

Physical Properties

Property code	Value	Unit	Source
gf	-51.44	kJ/mol	Joback Method
hf	-366.04	kJ/mol	Joback Method
hfus	30.03	kJ/mol	Joback Method
hvap	80.42	kJ/mol	Joback Method
log10ws	-4.11		Crippen Method
logp	3.122		Crippen Method
mcvol	220.480	ml/mol	McGowan Method
pc	2159.31	kPa	Joback Method
tb	788.26	K	Joback Method
tc	1000.28	K	Joback Method
tf	449.51	K	Joback Method
vc	0.821	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	639.35	J/mol×K	788.26	Joback Method
cpg	653.54	J/mol×K	823.60	Joback Method
cpg	666.71	J/mol×K	858.93	Joback Method
cpg	678.86	J/mol×K	894.27	Joback Method
cpg	690.03	J/mol×K	929.60	Joback Method
cpg	700.25	J/mol×K	964.94	Joback Method
cpg	709.52	J/mol×K	1000.28	Joback Method
dvisc	0.0006017	Pa×s	449.51	Joback Method
dvisc	0.0002298	Pa×s	505.97	Joback Method

dvisc	0.0001065	Pa×s	562.43	Joback Method
dvisc	0.0000568	Pa×s	618.88	Joback Method
dvisc	0.0000336	Pa×s	675.34	Joback Method
dvisc	0.0000216	Pa×s	731.80	Joback Method
dvisc	0.0000148	Pa×s	788.26	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=C17181496&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