2,4-Bis(4-methoxyphenyl)-3,5-dimethyltetrahydrof

Inchi: InChI=1S/C20H24O3/c1-13-19(15-5-9-17(21-3)10-6-15)14(2)23-20(13)16-7-11-18(22-4)1
InchiKey: MDWDSTVGZXXUID-UHFFFAOYSA-N
Formula: C20H24O3
SMILES: COc1ccc(C2OC(C)C(c3ccc(OC)cc3)C2C)cc1
Mol. weight [g/mol]: 312.40
CAS: 844679-34-1

Physical Properties

Property code	Value	Unit	Source
gf	40.38	kJ/mol	Joback Method
hf	-402.99	kJ/mol	Joback Method
hfus	42.36	kJ/mol	Joback Method
hvap	74.65	kJ/mol	Joback Method
log10ws	-5.08		Crippen Method
logp	4.583		Crippen Method
mcvol	251.890	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
rinpol	2502.80		NIST Webbook
tb	793.38	K	Joback Method
tc	1027.37	K	Joback Method
tf	462.25	K	Joback Method
vc	0.934	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	781.22	J/mol×K	793.38	Joback Method
cpg	801.15	J/mol×K	832.38	Joback Method
cpg	819.38	J/mol×K	871.38	Joback Method
cpg	835.95	J/mol×K	910.38	Joback Method
cpg	850.86	J/mol×K	949.37	Joback Method
cpg	864.16	J/mol×K	988.37	Joback Method
cpg	875.85	J/mol×K	1027.37	Joback Method
dvisc	0.0007963	Pa×s	462.25	Joback Method

dvisc	0.0005260	Pa×s	517.44	Joback Method
dvisc	0.0003764	Pa×s	572.63	Joback Method
dvisc	0.0002857	Pa×s	627.82	Joback Method
dvisc	0.0002267	Pa×s	683.00	Joback Method
dvisc	0.0001862	Pa×s	738.19	Joback Method
dvisc	0.0001572	Pa×s	793.38	Joback Method

Sources

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=C844679341&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume