(E)-1-(4-Hydroxy-3-methoxyphenyl)hexadec-4-en-

Inchi: InChI=1S/C23H36O3/c1-3-4-5-6-7-8-9-10-11-12-13-14-21(24)17-15-20-16-18-22(25)23(1
InchiKey: WCQFXNQALHURHS-BUHFOSPRSA-N
Formula: C23H36O3
SMILES: CCCCCCCCCCCC=CC(=O)CCc1ccc(O)c(OC)c1
Mol. weight [g/mol]: 360.53
CAS: 104264-52-0

Physical Properties

Property code	Value	Unit	Source
gf	-62.76	kJ/mol	Joback Method
hf	-597.88	kJ/mol	Joback Method
hfus	57.75	kJ/mol	Joback Method
hvap	91.86	kJ/mol	Joback Method
log10ws	-6.94		Crippen Method
logp	6.380		Crippen Method
mcvol	320.180	ml/mol	McGowan Method
pc	1219.99	kPa	Joback Method
rinpol	2937.70		NIST Webbook
rinpol	2937.70		NIST Webbook
tb	918.37	K	Joback Method
tc	1128.58	K	Joback Method
tf	566.71	K	Joback Method
vc	1.185	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1043.46	J/mol×K	918.37	Joback Method
cpg	1061.25	J/mol×K	953.41	Joback Method
cpg	1078.25	J/mol×K	988.44	Joback Method
cpg	1094.58	J/mol×K	1023.48	Joback Method
cpg	1110.34	J/mol×K	1058.51	Joback Method
cpg	1125.60	J/mol×K	1093.55	Joback Method
cpg	1140.49	J/mol×K	1128.58	Joback Method

dvisc	0.0000635	Pa×s	566.71	Joback Method
dvisc	0.0000264	Pa×s	625.32	Joback Method
dvisc	0.0000127	Pa×s	683.93	Joback Method
dvisc	0.0000069	Pa×s	742.54	Joback Method
dvisc	0.0000041	Pa×s	801.15	Joback Method
dvisc	0.0000026	Pa×s	859.76	Joback Method
dvisc	0.0000017	Pa×s	918.37	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C104264520&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
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