Hexahydrofuro[3,2-b]furan-3,6-diyl bis((E)-2-methylbut-2-enoate)

Inchi: InChI=1S/C16H22O6/c1-5-9(3)15(17)21-11-7-19-14-12(8-20-13(11)14)22-16(18)10(4)6-2

InchiKey: ZOOGYFMUJUYHFR-NXZHAISVSA-N

Formula: C16H22O6

SMILES: CC=C(C)C(=O)OC1COC2C(OC(=O)C(C)=CC)COC12

Mol. weight [g/mol]: 310.34

Physical Properties

Property code	Value	Unit	Source
gf	-331.02	kJ/mol	Joback Method
hf	-819.71	kJ/mol	Joback Method
hfus	50.72	kJ/mol	Joback Method
hvap	78.17	kJ/mol	Joback Method
log10ws	-2.36		Crippen Method
logp	1.540		Crippen Method
mcvol	232.600	ml/mol	McGowan Method
pc	1854.71	kPa	Joback Method
rinpol	2267.00		NIST Webbook
rinpol	2267.00		NIST Webbook
tb	792.72	K	Joback Method
tc	1010.09	K	Joback Method
tf	449.82	K	Joback Method
vc	0.879	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	732.85	J/mol×K	792.72	Joback Method
cpg	749.45	J/mol×K	828.95	Joback Method
cpg	764.92	J/mol×K	865.18	Joback Method
cpg	779.31	J/mol×K	901.41	Joback Method
cpg	792.69	J/mol×K	937.63	Joback Method
cpg	805.11	J/mol×K	973.86	Joback Method
cpg	816.63	J/mol×K	1010.09	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=U373763&Units=SI

Legend

cpg:	Ideal gas heat capacity
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