Fumaric acid, 2,6-dimethoxyphenyl dodec-2-en-1-yl ester

Inchi: InChI=1S/C24H34O6/c1-4-5-6-7-8-9-10-11-12-13-19-29-22(25)17-18-23(26)30-24-20(27
InchiKey: FHYHDLDYNRJLHP-HUXYGNSESA-N
Formula: C24H34O6
SMILES: CCCCCCCCCC=CCOC(=O)C=CC(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]: 418.52

Physical Properties

Property code	Value	Unit	Source
gf	-273.05	kJ/mol	Joback Method
hf	-844.70	kJ/mol	Joback Method
hfus	59.53	kJ/mol	Joback Method
hvap	95.67	kJ/mol	Joback Method
log10ws	-6.46		Crippen Method
logp	5.406		Crippen Method
mcvol	343.280	ml/mol	McGowan Method
pc	1068.66	kPa	Joback Method
rinpol	3054.00		NIST Webbook
tb	990.90	K	Joback Method
tc	1213.23	K	Joback Method
tf	590.32	K	Joback Method
vc	1.315	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1120.01	J/mol×K	990.90	Joback Method
cpg	1179.73	J/mol×K	1176.17	Joback Method
cpg	1170.58	J/mol×K	1139.12	Joback Method
cpg	1160.07	J/mol×K	1102.06	Joback Method
cpg	1148.16	J/mol×K	1065.01	Joback Method
cpg	1134.81	J/mol×K	1027.95	Joback Method
cpg	1187.54	J/mol×K	1213.23	Joback Method
dvisc	0.0000133	Pa×s	990.90	Joback Method
dvisc	0.0000171	Pa×s	924.14	Joback Method

dvisc	0.0000228	Pa×s	857.37	Joback Method
dvisc	0.0000320	Pa×s	790.61	Joback Method
dvisc	0.0000477	Pa×s	723.85	Joback Method
dvisc	0.0000772	Pa×s	657.08	Joback Method
dvisc	0.0001395	Pa×s	590.32	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=U405762&Units=SI

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