Glutaric acid, di(2,6-dimethoxyphenyl) ester

Inchi: InChI=1S/C21H24O8/c1-24-14-8-5-9-15(25-2)20(14)28-18(22)12-7-13-19(23)29-21-16(2
InchiKey: GIELYTQZVBPYAW-UHFFFAOYSA-N
Formula: C21H24O8
SMILES: COc1cccc(OC)c1OC(=O)CCCC(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]: 404.41

Physical Properties

Property code	Value	Unit	Source
gf	-575.60	kJ/mol	Joback Method
hf	-1068.07	kJ/mol	Joback Method
hfus	47.00	kJ/mol	Joback Method
hvap	97.49	kJ/mol	Joback Method
log10ws	-4.65		Crippen Method
logp	3.402		Crippen Method
mcvol	297.590	ml/mol	McGowan Method
pc	1470.23	kPa	Joback Method
rinpol	3192.00		NIST Webbook
rinpol	3192.00		NIST Webbook
tb	995.42	K	Joback Method
tc	1223.64	K	Joback Method
tf	662.59	K	Joback Method
vc	1.115	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	941.27	J/mol×K	995.42	Joback Method
cpg	969.86	J/mol×K	1185.61	Joback Method
cpg	968.38	J/mol×K	1147.57	Joback Method
cpg	964.72	J/mol×K	1109.53	Joback Method
cpg	958.95	J/mol×K	1071.49	Joback Method
cpg	951.12	J/mol×K	1033.46	Joback Method
cpg	969.13	J/mol×K	1223.64	Joback Method
dvisc	0.0000161	Pa×s	995.42	Joback Method

dvisc	0.0000196	Pa×s	939.95	Joback Method
dvisc	0.0000246	Pa×s	884.48	Joback Method
dvisc	0.0000317	Pa×s	829.01	Joback Method
dvisc	0.0000425	Pa×s	773.53	Joback Method
dvisc	0.0000595	Pa×s	718.06	Joback Method
dvisc	0.0000882	Pa×s	662.59	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358718&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