Glutaric acid, di(2-formylphenyl) ester

Inchi: InChI=1S/C19H16O6/c20-12-14-6-1-3-8-16(14)24-18(22)10-5-11-19(23)25-17-9-4-2-7-15
InchiKey: BFGWPXZQEFYACA-UHFFFAOYSA-N
Formula: C19H16O6
SMILES: O=Cc1ccccc1OC(=O)CCCC(=O)Oc1ccccc1C=O
Mol. weight [g/mol]: 340.33

Physical Properties

Property code	Value	Unit	Source
gf	-352.22	kJ/mol	Joback Method
hf	-646.13	kJ/mol	Joback Method
hfus	42.42	kJ/mol	Joback Method
hvap	95.52	kJ/mol	Joback Method
log10ws	-4.65		Crippen Method
logp	2.993		Crippen Method
mcvol	249.070	ml/mol	McGowan Method
pc	2123.64	kPa	Joback Method
rinpol	2938.00		NIST Webbook
rinpol	2938.00		NIST Webbook
tb	947.34	K	Joback Method
tc	1179.79	K	Joback Method
tf	610.09	K	Joback Method
vc	0.966	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	740.19	J/mol×K	947.34	Joback Method
cpg	749.86	J/mol×K	986.08	Joback Method
cpg	758.28	J/mol×K	1024.82	Joback Method
cpg	765.48	J/mol×K	1063.56	Joback Method
cpg	771.49	J/mol×K	1102.30	Joback Method
cpg	776.35	J/mol×K	1141.04	Joback Method
cpg	780.07	J/mol×K	1179.79	Joback Method
dvisc	0.0004937	Pa×s	610.09	Joback Method

dvisc	0.0003178	Pa×s	666.30	Joback Method
dvisc	0.0002191	Pa×s	722.51	Joback Method
dvisc	0.0001594	Pa×s	778.72	Joback Method
dvisc	0.0001210	Pa×s	834.92	Joback Method
dvisc	0.0000951	Pa×s	891.13	Joback Method
dvisc	0.0000769	Pa×s	947.34	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=U390265&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