Glutaric acid, di(2,3,4-trifluorophenyl) ester

Inchi: InChI=1S/C17H10F6O4/c18-8-4-6-10(16(22)14(8)20)26-12(24)2-1-3-13(25)27-11-7-5-9(1
InchiKey: NSLHQXKZMQJVCL-UHFFFAOYSA-N
Formula: C17H10F6O4
SMILES: O=C(CCCC(=O)Oc1ccc(F)c(F)c1F)Oc1ccc(F)c(F)c1F
Mol. weight [g/mol]: 392.25

Physical Properties

Property code	Value	Unit	Source
gf	-1377.40	kJ/mol	Joback Method
hf	-1656.23	kJ/mol	Joback Method
hfus	49.59	kJ/mol	Joback Method
hvap	75.37	kJ/mol	Joback Method
log10ws	-6.16		Crippen Method
logp	4.203		Crippen Method
mcvol	228.370	ml/mol	McGowan Method
pc	1657.84	kPa	Joback Method
rinpol	2188.00		NIST Webbook
rinpol	2188.00		NIST Webbook
tb	819.80	K	Joback Method
tc	1016.72	K	Joback Method
tf	557.17	K	Joback Method
vc	0.927	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	651.56	J/mol×K	819.80	Joback Method
cpg	662.07	J/mol×K	852.62	Joback Method
cpg	671.71	J/mol×K	885.44	Joback Method
cpg	680.48	J/mol×K	918.26	Joback Method
cpg	688.38	J/mol×K	951.08	Joback Method
cpg	695.41	J/mol×K	983.90	Joback Method
cpg	701.57	J/mol×K	1016.72	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=U393651&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