Glutaric acid, monochloride, 3-oxobut-2-yl ester

Inchi: InChI=1S/C9H13ClO4/c1-6(11)7(2)14-9(13)5-3-4-8(10)12/h7H,3-5H2,1-2H3
InchiKey: VZGGHTAJHHLUOG-UHFFFAOYSA-N
Formula: C9H13ClO4
SMILES: CC(=O)C(C)OC(=O)CCCC(=O)Cl
Mol. weight [g/mol]: 220.65

Physical Properties

Property code	Value	Unit	Source
gf	-481.23	kJ/mol	Joback Method
hf	-720.07	kJ/mol	Joback Method
hfus	25.73	kJ/mol	Joback Method
hvap	62.27	kJ/mol	Joback Method
log10ws	-1.77		Crippen Method
logp	1.443		Crippen Method
mcvol	160.490	ml/mol	McGowan Method
pc	2659.77	kPa	Joback Method
rinpol	1513.00		NIST Webbook
rinpol	1513.00		NIST Webbook
tb	626.34	K	Joback Method
tc	824.94	K	Joback Method
tf	378.13	K	Joback Method
vc	0.619	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	386.26	J/mol×K	626.34	Joback Method
cpg	397.44	J/mol×K	659.44	Joback Method
cpg	408.02	J/mol×K	692.54	Joback Method
cpg	417.98	J/mol×K	725.64	Joback Method
cpg	427.35	J/mol×K	758.74	Joback Method
cpg	436.13	J/mol×K	791.84	Joback Method
cpg	444.32	J/mol×K	824.94	Joback Method
dvisc	0.0024489	Pa×s	378.13	Joback Method

dvisc	0.0013698	Pa×s	419.50	Joback Method
dvisc	0.0008505	Pa×s	460.87	Joback Method
dvisc	0.0005711	Pa×s	502.24	Joback Method
dvisc	0.0004075	Pa×s	543.60	Joback Method
dvisc	0.0003050	Pa×s	584.97	Joback Method
dvisc	0.0002372	Pa×s	626.34	Joback Method

Sources

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=U359716&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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