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

Inchi: InChI=1S/C11H19ClO3/c1-4-9(8(2)3)15-11(14)7-5-6-10(12)13/h8-9H,4-7H2,1-3H3
InchiKey: BPPSKCPYIZOEKF-UHFFFAOYSA-N
Formula: C11H19ClO3
SMILES: CCC(OC(=O)CCCC(=O)Cl)C(C)C
Mol. weight [g/mol]: 234.72

Physical Properties

Property code	Value	Unit	Source
gf	-337.91	kJ/mol	Joback Method
hf	-654.05	kJ/mol	Joback Method
hfus	25.78	kJ/mol	Joback Method
hvap	59.59	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	2.900		Crippen Method
mcvol	187.100	ml/mol	McGowan Method
pc	2092.66	kPa	Joback Method
rinpol	1584.00		NIST Webbook
rinpol	1510.00		NIST Webbook
tb	617.79	K	Joback Method
tc	808.00	K	Joback Method
tf	335.74	K	Joback Method
vc	0.719	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	468.49	J/mol×K	617.79	Joback Method
cpg	482.45	J/mol×K	649.49	Joback Method
cpg	495.71	J/mol×K	681.19	Joback Method
cpg	508.28	J/mol×K	712.89	Joback Method
cpg	520.18	J/mol×K	744.59	Joback Method
cpg	531.42	J/mol×K	776.30	Joback Method
cpg	542.00	J/mol×K	808.00	Joback Method
dvisc	0.0035275	Pa×s	335.74	Joback Method

dvisc	0.0015730	Pa×s	382.75	Joback Method
dvisc	0.0008370	Pa×s	429.76	Joback Method
dvisc	0.0005044	Pa×s	476.76	Joback Method
dvisc	0.0003329	Pa×s	523.77	Joback Method
dvisc	0.0002352	Pa×s	570.78	Joback Method
dvisc	0.0001753	Pa×s	617.79	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U359526&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