Glutaric acid, but-3-en-2-yl 8-chlorooctyl ester

Inchi: InChI=1S/C17H29ClO4/c1-3-15(2)22-17(20)12-10-11-16(19)21-14-9-7-5-4-6-8-13-18/h3,
InchiKey: YQLZRXWPQLLFFA-UHFFFAOYSA-N
Formula: C17H29ClO4
SMILES: C=CC(C)OC(=O)CCCC(=O)OCCCCCCCCCl
Mol. weight [g/mol]: 332.86

Physical Properties

Property code	Value	Unit	Source
gf	-302.11	kJ/mol	Joback Method
hf	-779.40	kJ/mol	Joback Method
hfus	44.75	kJ/mol	Joback Method
hvap	75.08	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	4.397		Crippen Method
mcvol	273.210	ml/mol	McGowan Method
pc	1327.14	kPa	Joback Method
rinpol	2265.00		NIST Webbook
rinpol	2265.00		NIST Webbook
tb	774.61	K	Joback Method
tc	960.05	K	Joback Method
tf	438.83	K	Joback Method
vc	1.060	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	797.02	J/mol×K	774.61	Joback Method
cpg	812.76	J/mol×K	805.52	Joback Method
cpg	827.59	J/mol×K	836.42	Joback Method
cpg	841.54	J/mol×K	867.33	Joback Method
cpg	854.61	J/mol×K	898.23	Joback Method
cpg	866.83	J/mol×K	929.14	Joback Method
cpg	878.21	J/mol×K	960.05	Joback Method
dvisc	0.0010911	Pa×s	438.83	Joback Method

dvisc	0.0005313	Pa×s	494.79	Joback Method
dvisc	0.0002995	Pa×s	550.76	Joback Method
dvisc	0.0001876	Pa×s	606.72	Joback Method
dvisc	0.0001272	Pa×s	662.68	Joback Method
dvisc	0.0000916	Pa×s	718.65	Joback Method
dvisc	0.0000692	Pa×s	774.61	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405245&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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