Glutaric acid, oct-1-en-3-yl 2,2-dichloroethyl ester

Inchi: InChI=1S/C15H24Cl2O4/c1-3-5-6-8-12(4-2)21-15(19)10-7-9-14(18)20-11-13(16)17/h4,12

InchiKey: OWVDYXTZXPBCRM-UHFFFAOYSA-N

Formula: C15H24Cl2O4

SMILES: C=CC(CCCCC)OC(=O)CCCC(=O)OCC(Cl)Cl

Mol. weight [g/mol]: 339.25

Physical Properties

Property code	Value	Unit	Source
gf	-333.32	kJ/mol	Joback Method
hf	-759.14	kJ/mol	Joback Method
hfus	40.25	kJ/mol	Joback Method
hvap	74.62	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	4.182		Crippen Method
mcvol	257.270	ml/mol	McGowan Method
pc	1499.99	kPa	Joback Method
rinpol	2063.00		NIST Webbook
rinpol	2063.00		NIST Webbook
tb	765.84	K	Joback Method
tc	957.29	K	Joback Method
tf	431.21	K	Joback Method
vc	0.991	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	712.73	J/mol×K	765.84	Joback Method
cpg	726.93	J/mol×K	797.75	Joback Method
cpg	740.26	J/mol×K	829.66	Joback Method
cpg	752.73	J/mol×K	861.56	Joback Method
cpg	764.37	J/mol×K	893.47	Joback Method
cpg	775.18	J/mol×K	925.38	Joback Method
cpg	785.19	J/mol×K	957.29	Joback Method
dvisc	0.0012673	Pa×s	431.21	Joback Method

dvisc	0.0006005	Pa×s	486.98	Joback Method
dvisc	0.0003317	Pa×s	542.75	Joback Method
dvisc	0.0002047	Pa×s	598.52	Joback Method
dvisc	0.0001371	Pa×s	654.30	Joback Method
dvisc	0.0000978	Pa×s	710.07	Joback Method
dvisc	0.0000733	Pa×s	765.84	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=U405348&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