Glutaric acid, dodec-2-en-1-yl 10-chlorodecyl ester

Inchi: InChI=1S/C27H49ClO4/c1-2-3-4-5-6-7-9-12-15-18-24-31-26(29)21-20-22-27(30)32-25-19

InchiKey: LHOKIKOMNFZRFY-OBGWFSINSA-N

Formula: C27H49ClO4

SMILES: CCCCCCCCCC=CCOC(=O)CCCC(=O)OCCCCCCCCCCCCl

Mol. weight [g/mol]: 473.13

Physical Properties

Property code	Value	Unit	Source
gf	-223.09	kJ/mol	Joback Method
hf	-988.73	kJ/mol	Joback Method
hfus	75.66	kJ/mol	Joback Method
hvap	98.35	kJ/mol	Joback Method
log10ws	-8.86		Crippen Method
logp	8.300		Crippen Method
mcvol	414.110	ml/mol	McGowan Method
pc	729.28	kPa	Joback Method
rinpol	3363.00		NIST Webbook
rinpol	3363.00		NIST Webbook
tb	1011.33	K	Joback Method
tc	1251.49	K	Joback Method
tf	563.21	K	Joback Method
vc	1.625	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1411.17	J/mol×K	1011.33	Joback Method
cpg	1431.78	J/mol×K	1051.36	Joback Method
cpg	1450.67	J/mol×K	1091.38	Joback Method
cpg	1467.94	J/mol×K	1131.41	Joback Method
cpg	1483.67	J/mol×K	1171.44	Joback Method
cpg	1497.95	J/mol×K	1211.46	Joback Method
cpg	1510.89	J/mol×K	1251.49	Joback Method
dvisc	0.0002549	Pa×s	563.21	Joback Method

dvisc	0.0001172	Pa×s	637.90	Joback Method
dvisc	0.0000634	Pa×s	712.58	Joback Method
dvisc	0.0000386	Pa×s	787.27	Joback Method
dvisc	0.0000256	Pa×s	861.96	Joback Method
dvisc	0.0000181	Pa×s	936.64	Joback Method
dvisc	0.0000135	Pa×s	1011.33	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=U392478&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