Succinic acid, dodec-2-en-1-yl 4-chlorobenzyl ester

Inchi: InChI=1S/C23H33ClO4/c1-2-3-4-5-6-7-8-9-10-11-18-27-22(25)16-17-23(26)28-19-20-12-

InchiKey: BIKOLROTMUJMEJ-ZHACJKMWSA-N

Formula: C23H33ClO4

SMILES: CCCCCCCCCC=CCOC(=O)CCC(=O)OCc1ccc(Cl)cc1

Mol. weight [g/mol]: 408.96

Physical Properties

Property code	Value	Unit	Source
gf	-153.99	kJ/mol	Joback Method
hf	-681.11	kJ/mol	Joback Method
hfus	58.95	kJ/mol	Joback Method
hvap	92.38	kJ/mol	Joback Method
log10ws	-7.31		Crippen Method
logp	6.404		Crippen Method
mcvol	333.990	ml/mol	McGowan Method
pc	1108.89	kPa	Joback Method
rinpol	3040.00		NIST Webbook
rinpol	3040.00		NIST Webbook
tb	951.47	K	Joback Method
tc	1166.55	K	Joback Method
tf	557.07	K	Joback Method
vc	1.292	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1056.68	J/mol×K	951.47	Joback Method
cpg	1071.96	J/mol×K	987.32	Joback Method
cpg	1086.05	J/mol×K	1023.16	Joback Method
cpg	1098.98	J/mol×K	1059.01	Joback Method
cpg	1110.81	J/mol×K	1094.85	Joback Method
cpg	1121.60	J/mol×K	1130.70	Joback Method
cpg	1131.40	J/mol×K	1166.55	Joback Method
dvisc	0.0003193	Pa×s	557.07	Joback Method

dvisc	0.0001695	Pa×s	622.80	Joback Method
dvisc	0.0001015	Pa×s	688.54	Joback Method
dvisc	0.0000665	Pa×s	754.27	Joback Method
dvisc	0.0000466	Pa×s	820.00	Joback Method
dvisc	0.0000345	Pa×s	885.74	Joback Method
dvisc	0.0000265	Pa×s	951.47	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389684&Units=SI

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