Succinic acid, 4-chloro-3-methylphenyl cyclopentyl ester

Inchi: InChI=1S/C16H19ClO4/c1-11-10-13(6-7-14(11)17)21-16(19)9-8-15(18)20-12-4-2-3-5-12/

InchiKey: BKWSNQQNNAURIY-UHFFFAOYSA-N

Formula: C16H19ClO4

SMILES: Cc1cc(OC(=O)CCC(=O)OC2CCCC2)ccc1Cl

Mol. weight [g/mol]: 310.77

Physical Properties

Property code	Value	Unit	Source
gf	-266.23	kJ/mol	Joback Method
hf	-604.84	kJ/mol	Joback Method
hfus	34.16	kJ/mol	Joback Method
hvap	77.76	kJ/mol	Joback Method
log10ws	-4.75		Crippen Method
logp	3.820		Crippen Method
mcvol	228.800	ml/mol	McGowan Method
pc	2032.72	kPa	Joback Method
rinpol	2396.00		NIST Webbook
rinpol	2396.00		NIST Webbook
tb	807.41	K	Joback Method
tc	1034.61	K	Joback Method
tf	506.68	K	Joback Method
vc	0.862	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	664.05	J/mol×K	807.41	Joback Method
cpg	678.91	J/mol×K	845.28	Joback Method
cpg	692.51	J/mol×K	883.14	Joback Method
cpg	704.87	J/mol×K	921.01	Joback Method
cpg	716.02	J/mol×K	958.88	Joback Method
cpg	725.98	J/mol×K	996.74	Joback Method
cpg	734.78	J/mol×K	1034.61	Joback Method
dvisc	0.0008159	Pa×s	506.68	Joback Method

dvisc	0.0005171	Pa×s	556.80	Joback Method
dvisc	0.0003534	Pa×s	606.92	Joback Method
dvisc	0.0002560	Pa×s	657.04	Joback Method
dvisc	0.0001940	Pa×s	707.17	Joback Method
dvisc	0.0001526	Pa×s	757.29	Joback Method
dvisc	0.0001237	Pa×s	807.41	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=U391381&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