

Succinic acid, 4-chloro-3-methylphenyl 2-ethylphenyl ester

Inchi:	InChI=1S/C19H19ClO4/c1-3-14-6-4-5-7-17(14)24-19(22)11-10-18(21)23-15-8-9-16(20)1
InchiKey:	URRIVBZFJYFVIW-UHFFFAOYSA-N
Formula:	C19H19ClO4
SMILES:	CCc1ccccc1OC(=O)CCC(=O)Oc1ccc(Cl)c(C)c1
Mol. weight [g/mol]:	346.81

Physical Properties

Property code	Value	Unit	Source
gf	-174.74	kJ/mol	Joback Method
hf	-502.18	kJ/mol	Joback Method
hfus	41.65	kJ/mol	Joback Method
hvap	87.12	kJ/mol	Joback Method
log10ws	-5.71		Crippen Method
logp	4.502		Crippen Method
mvol	258.170	ml/mol	McGowan Method
pc	1780.34	kPa	Joback Method
rinpol	2589.00		NIST Webbook
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tb	892.43	K	Joback Method
tc	1122.94	K	Joback Method
tf	568.53	K	Joback Method
vc	0.981	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	744.88	J/molxK	892.43	Joback Method
cpg	757.38	J/molxK	930.85	Joback Method
cpg	768.61	J/molxK	969.27	Joback Method
cpg	778.59	J/molxK	1007.69	Joback Method
cpg	787.36	J/molxK	1046.11	Joback Method
cpg	794.94	J/molxK	1084.52	Joback Method
cpg	801.34	J/molxK	1122.94	Joback Method
dvisc	0.0003739	Paxs	568.53	Joback Method

dvisc	0.0002395	Paxs	622.51	Joback Method
dvisc	0.0001647	Paxs	676.50	Joback Method
dvisc	0.0001197	Paxs	730.48	Joback Method
dvisc	0.0000909	Paxs	784.46	Joback Method
dvisc	0.0000716	Paxs	838.45	Joback Method
dvisc	0.0000580	Paxs	892.43	Joback Method

Sources

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=U389951&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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