

Succinic acid, 3-chlorophenyl dec-4-en-1-yl ester

Inchi:	InChI=1S/C20H27ClO4/c1-2-3-4-5-6-7-8-9-15-24-19(22)13-14-20(23)25-18-12-10-11-17
InchiKey:	KLXPSRVJGXASJC-VOTSOKGWSA-N
Formula:	C20H27ClO4
SMILES:	CCCCC=CCCCOC(=O)CCC(=O)Oc1cccc(Cl)c1
Mol. weight [g/mol]:	366.88

Physical Properties

Property code	Value	Unit	Source
gf	-179.25	kJ/mol	Joback Method
hf	-619.19	kJ/mol	Joback Method
hfus	51.18	kJ/mol	Joback Method
hvap	85.71	kJ/mol	Joback Method
log10ws	-6.21		Crippen Method
logp	5.485		Crippen Method
mvol	291.720	ml/mol	McGowan Method
pc	1356.63	kPa	Joback Method
rinpol	2640.00		NIST Webbook
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tb	882.83	K	Joback Method
tc	1091.90	K	Joback Method
tf	523.26	K	Joback Method
vc	1.125	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	877.62	J/molxK	882.83	Joback Method
cpg	892.16	J/molxK	917.68	Joback Method
cpg	905.62	J/molxK	952.52	Joback Method
cpg	918.05	J/molxK	987.37	Joback Method
cpg	929.48	J/molxK	1022.21	Joback Method
cpg	939.95	J/molxK	1057.06	Joback Method
cpg	949.51	J/molxK	1091.90	Joback Method
dvisc	0.0004469	Paxs	523.26	Joback Method

dvisc	0.0002450	Paxs	583.19	Joback Method
dvisc	0.0001503	Paxs	643.12	Joback Method
dvisc	0.0001002	Paxs	703.04	Joback Method
dvisc	0.0000712	Paxs	762.97	Joback Method
dvisc	0.0000531	Paxs	822.90	Joback Method
dvisc	0.0000413	Paxs	882.83	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391178&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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

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