Succinic acid, di(2-(2-chlorophenoxy)ethyl) ester

Inchi: InChI=1S/C20H20Cl2O6/c21-15-5-1-3-7-17(15)25-11-13-27-19(23)9-10-20(24)28-14-12-

InchiKey: QNKNESZJDWBOEA-UHFFFAOYSA-N

Formula: C20H20Cl2O6

SMILES: O=C(CCC(=O)OCCOc1ccccc1Cl)OCCOc1ccccc1Cl

Mol. weight [g/mol]: 427.27

Physical Properties

Property code	Value	Unit	Source
gf	-378.62	kJ/mol	Joback Method
hf	-791.53	kJ/mol	Joback Method
hfus	51.20	kJ/mol	Joback Method
hvap	97.89	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	4.318		Crippen Method
mcvol	296.240	ml/mol	McGowan Method
pc	1572.21	kPa	Joback Method
rinpol	3223.00		NIST Webbook
rinpol	3223.00		NIST Webbook
tb	992.60	K	Joback Method
tc	1225.33	K	Joback Method
tf	641.66	K	Joback Method
vc	1.121	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	874.69	J/mol×K	992.60	Joback Method
cpg	905.76	J/mol×K	1186.54	Joback Method
cpg	902.69	J/mol×K	1147.75	Joback Method
cpg	898.06	J/mol×K	1108.97	Joback Method
cpg	891.84	J/mol×K	1070.18	Joback Method
cpg	884.05	J/mol×K	1031.39	Joback Method
cpg	907.26	J/mol×K	1225.33	Joback Method
dvisc	0.0000232	Pa×s	992.60	Joback Method

dvisc	0.0000289	Pa×s	934.11	Joback Method
dvisc	0.0000371	Pa×s	875.62	Joback Method
dvisc	0.0000493	Pa×s	817.13	Joback Method
dvisc	0.0000684	Pa×s	758.64	Joback Method
dvisc	0.0001004	Pa×s	700.15	Joback Method
dvisc	0.0001580	Pa×s	641.66	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=U381545&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