

Succinic acid, 8-chlorooctyl 1-phenylpropyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C21H31ClO4/c1-2-19(18-12-8-7-9-13-18)26-21(24)15-14-20(23)25-17-11-6-4-3

CWBQLMJCHKSCJE-UHFFFAOYSA-N

C21H31ClO4

CCC(OC(=O)CCC(=O)OCCCCCCCCCl)c1ccccc1

382.92

Physical Properties

Property code	Value	Unit	Source
gf	-243.86	kJ/mol	Joback Method
hf	-750.86	kJ/mol	Joback Method
hfus	50.44	kJ/mol	Joback Method
hvap	86.92	kJ/mol	Joback Method
log10ws	-6.05		Crippen Method
logp	5.584		Crippen Method
mcvol	310.110	ml/mol	McGowan Method
pc	1239.83	kPa	Joback Method
rinpol	2707.00		NIST Webbook
rinpol	2707.00		NIST Webbook
tb	896.13	K	Joback Method
tc	1103.49	K	Joback Method
tf	512.09	K	Joback Method
vc	1.194	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	965.62	J/mol×K	896.13	Joback Method
cpg	980.95	J/mol×K	930.69	Joback Method
cpg	995.06	J/mol×K	965.25	Joback Method
cpg	1007.99	J/mol×K	999.81	Joback Method
cpg	1019.78	J/mol×K	1034.37	Joback Method
cpg	1030.46	J/mol×K	1068.93	Joback Method
cpg	1040.07	J/mol×K	1103.49	Joback Method
dvisc	0.0005645	Pa×s	512.09	Joback Method

dvisc	0.0002779	Pa×s	576.10	Joback Method
dvisc	0.0001576	Pa×s	640.10	Joback Method
dvisc	0.0000991	Pa×s	704.11	Joback Method
dvisc	0.0000673	Pa×s	768.12	Joback Method
dvisc	0.0000485	Pa×s	832.12	Joback Method
dvisc	0.0000367	Pa×s	896.13	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=U389935&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

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