

Succinic acid, 8-chlorooctyl 4-methoxyphenyl ester

Inchi:	InChI=1S/C19H27ClO5/c1-23-16-8-10-17(11-9-16)25-19(22)13-12-18(21)24-15-7-5-3-2-4
InchiKey:	VGfJWUAFGXDVpb-UHFFFAOYSA-N
Formula:	C19H27ClO5
SMILES:	COc1ccc(OC(=O)CCC(=O)OCCCCCCCCCl)cc1
Mol. weight [g/mol]:	370.87

Physical Properties

Property code	Value	Unit	Source
gf	-372.89	kJ/mol	Joback Method
hf	-847.99	kJ/mol	Joback Method
hfus	49.58	kJ/mol	Joback Method
hvap	85.93	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.503		Crippen Method
mvol	287.800	ml/mol	McGowan Method
pc	1384.02	kPa	Joback Method
rinpol	2899.00		NIST Webbook
rinpol	2899.00		NIST Webbook
tb	878.21	K	Joback Method
tc	1083.90	K	Joback Method
tf	539.30	K	Joback Method
vc	1.107	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	874.61	J/molxK	878.21	Joback Method
cpg	888.85	J/molxK	912.49	Joback Method
cpg	901.90	J/molxK	946.77	Joback Method
cpg	913.75	J/molxK	981.06	Joback Method
cpg	924.43	J/molxK	1015.34	Joback Method
cpg	933.95	J/molxK	1049.62	Joback Method
cpg	942.31	J/molxK	1083.90	Joback Method
dvisc	0.0003777	Paxs	539.30	Joback Method

dvisc	0.0002186	Paxs	595.78	Joback Method
dvisc	0.0001390	Paxs	652.27	Joback Method
dvisc	0.0000951	Paxs	708.75	Joback Method
dvisc	0.0000688	Paxs	765.24	Joback Method
dvisc	0.0000520	Paxs	821.72	Joback Method
dvisc	0.0000408	Paxs	878.21	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=U389831&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

Latest version available from:

<https://www.chemeo.com/cid/99-884-2/Succinic-acid-8-chlorooctyl-4-methoxyphenyl-ester.pdf>

Generated by Cheméo on 2024-04-27 07:01:25.484807529 +0000 UTC m=+16490534.405384844.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.