

Succinic acid, 8-chlorooctyl 3-phenoxybenzyl ester

Inchi:	InChI=1S/C25H31ClO5/c26-17-8-3-1-2-4-9-18-29-24(27)15-16-25(28)30-20-21-11-10-14
InchiKey:	VQTPZKFQKUYZLH-UHFFFAOYSA-N
Formula:	C25H31ClO5
SMILES:	O=C(CCC(=O)OCc1cccc(Oc2ccccc2)c1)OCCCCCCCCI
Mol. weight [g/mol]:	446.96

Physical Properties

Property code	Value	Unit	Source
gf	-209.96	kJ/mol	Joback Method
hf	-735.30	kJ/mol	Joback Method
hfus	59.16	kJ/mol	Joback Method
hvap	101.56	kJ/mol	Joback Method
log10ws	-6.89		Crippen Method
logp	6.425		Crippen Method
mvol	348.580	ml/mol	McGowan Method
pc	1162.45	kPa	Joback Method
rinpol	3384.00		NIST Webbook
rinpol	3384.00		NIST Webbook
tb	1042.17	K	Joback Method
tc	1276.60	K	Joback Method
tf	633.34	K	Joback Method
vc	1.335	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1125.70	J/molxK	1042.17	Joback Method
cpg	1137.74	J/molxK	1081.24	Joback Method
cpg	1148.17	J/molxK	1120.31	Joback Method
cpg	1157.02	J/molxK	1159.38	Joback Method
cpg	1164.35	J/molxK	1198.46	Joback Method
cpg	1170.21	J/molxK	1237.53	Joback Method
cpg	1174.64	J/molxK	1276.60	Joback Method
dvisc	0.0001692	Paxs	633.34	Joback Method

dvisc	0.0000958	Paxs	701.48	Joback Method
dvisc	0.0000600	Paxs	769.62	Joback Method
dvisc	0.0000405	Paxs	837.76	Joback Method
dvisc	0.0000290	Paxs	905.89	Joback Method
dvisc	0.0000218	Paxs	974.03	Joback Method
dvisc	0.0000170	Paxs	1042.17	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=U390379&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

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