

Succinic acid, 8-chlorooctyl 4-biphenyl ester

Inchi: InChI=1S/C24H29ClO4/c25-18-8-3-1-2-4-9-19-28-23(26)16-17-24(27)29-22-14-12-21(13)
InchiKey: LYRCTFIGGMSLOK-UHFFFAOYSA-N
Formula: C24H29ClO4
SMILES: O=C(CCC(=O)Oc1ccc(-c2ccccc2)cc1)OCCCCCCCCl
Mol. weight [g/mol]: 416.94

Physical Properties

Property code	Value	Unit	Source
gf	-113.38	kJ/mol	Joback Method
hf	-582.44	kJ/mol	Joback Method
hfus	55.38	kJ/mol	Joback Method
hvap	96.93	kJ/mol	Joback Method
log10ws	-7.59		Crippen Method
logp	6.162		Crippen Method
mvol	328.620	ml/mol	McGowan Method
pc	1257.48	kPa	Joback Method
rinpol	2477.00		NIST Webbook
rinpol	2477.00		NIST Webbook
tb	996.87	K	Joback Method
tc	1225.27	K	Joback Method
tf	599.84	K	Joback Method
vc	1.260	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1039.60	J/molxK	996.87	Joback Method
cpg	1092.06	J/molxK	1187.20	Joback Method
cpg	1084.07	J/molxK	1149.14	Joback Method
cpg	1074.89	J/molxK	1111.07	Joback Method
cpg	1064.46	J/molxK	1073.00	Joback Method
cpg	1052.72	J/molxK	1034.94	Joback Method
cpg	1098.91	J/molxK	1225.27	Joback Method
dvisc	0.0000269	Paxs	996.87	Joback Method

dvisc	0.0000345	Paxs	930.70	Joback Method
dvisc	0.0000460	Paxs	864.53	Joback Method
dvisc	0.0000644	Paxs	798.36	Joback Method
dvisc	0.0000956	Paxs	732.18	Joback Method
dvisc	0.0001536	Paxs	666.01	Joback Method
dvisc	0.0002739	Paxs	599.84	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390092&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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