

Succinic acid, di(3-phenylprop-2-en-1-yl) ester

Inchi:	InChI=1S/C22H22O4/c23-21(25-17-7-13-19-9-3-1-4-10-19)15-16-22(24)26-18-8-14-20-1
InchiKey:	VIYCFLGMTDPPEK-FNCQTZNRSA-N
Formula:	C22H22O4
SMILES:	O=C(CCC(=O)OCC=Cc1ccccc1)OCC=Cc1ccccc1
Mol. weight [g/mol]:	350.41

Physical Properties

Property code	Value	Unit	Source
gf	51.78	kJ/mol	Joback Method
hf	-279.51	kJ/mol	Joback Method
hfus	46.80	kJ/mol	Joback Method
hvap	87.35	kJ/mol	Joback Method
log10ws	-5.00		Crippen Method
logp	4.280		Crippen Method
mvol	279.600	ml/mol	McGowan Method
pc	1636.45	kPa	Joback Method
rinpol	3047.00		NIST Webbook
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tb	917.02	K	Joback Method
tc	1148.35	K	Joback Method
tf	524.70	K	Joback Method
vc	1.060	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	842.74	J/molxK	917.02	Joback Method
cpg	901.76	J/molxK	1109.80	Joback Method
cpg	891.81	J/molxK	1071.24	Joback Method
cpg	881.02	J/molxK	1032.69	Joback Method
cpg	869.31	J/molxK	994.13	Joback Method
cpg	856.58	J/molxK	955.58	Joback Method
cpg	910.97	J/molxK	1148.35	Joback Method
dvisc	0.0000319	Paxs	917.02	Joback Method

dvisc	0.0000415	Paxs	851.63	Joback Method
dvisc	0.0000563	Paxs	786.25	Joback Method
dvisc	0.0000809	Paxs	720.86	Joback Method
dvisc	0.0001249	Paxs	655.47	Joback Method
dvisc	0.0002123	Paxs	590.09	Joback Method
dvisc	0.0004119	Paxs	524.70	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=U391050&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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