

# Succinic acid, 1,1,1-trifluoroprop-2-yl 4-biphenyl ester

<b>Inchi:</b>	InChI=1S/C19H17F3O4/c1-13(19(20,21)22)25-17(23)11-12-18(24)26-16-9-7-15(8-10-16)
<b>InchiKey:</b>	NQDRJQVMFGYVFN-UHFFFAOYSA-N
<b>Formula:</b>	C19H17F3O4
<b>SMILES:</b>	CC(OC(=O)CCC(=O)Oc1ccc(-c2ccccc2)cc1)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	366.33

## Physical Properties

Property code	Value	Unit	Source
gf	-727.58	kJ/mol	Joback Method
hf	-1065.86	kJ/mol	Joback Method
hfus	36.54	kJ/mol	Joback Method
hvap	77.28	kJ/mol	Joback Method
log10ws	-6.12		Crippen Method
logp	4.533		Crippen Method
mcvol	251.240	ml/mol	McGowan Method
pc	1720.31	kPa	Joback Method
rinpol	2380.00		NIST Webbook
rinpol	2380.00		NIST Webbook
tb	839.18	K	Joback Method
tc	1055.66	K	Joback Method
tf	502.76	K	Joback Method
vc	0.969	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	748.70	J/mol×K	839.18	Joback Method
cpg	761.60	J/mol×K	875.26	Joback Method
cpg	773.35	J/mol×K	911.34	Joback Method
cpg	784.02	J/mol×K	947.42	Joback Method
cpg	793.65	J/mol×K	983.50	Joback Method
cpg	802.30	J/mol×K	1019.58	Joback Method
cpg	810.03	J/mol×K	1055.66	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390078&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390078&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>h vap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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