

# Succinic acid, 1,1,1-trifluoroprop-2-yl phenethyl ester

<b>Inchi:</b>	InChI=1S/C15H17F3O4/c1-11(15(16,17)18)22-14(20)8-7-13(19)21-10-9-12-5-3-2-4-6-12
<b>InchiKey:</b>	FGMFOOCETINIKD-UHFFFAOYSA-N
<b>Formula:</b>	C15H17F3O4
<b>SMILES:</b>	CC(OC(=O)CCC(=O)OCCc1ccccc1)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	318.29

## Physical Properties

Property code	Value	Unit	Source
gf	-864.04	kJ/mol	Joback Method
hf	-1208.36	kJ/mol	Joback Method
hfus	32.52	kJ/mol	Joback Method
hvap	65.44	kJ/mol	Joback Method
log10ws	-3.70		Crippen Method
logp	3.046		Crippen Method
mvol	218.640	ml/mol	McGowan Method
pc	1821.61	kPa	Joback Method
rinpol	1749.00		NIST Webbook
rinpol	1749.00		NIST Webbook
tb	716.00	K	Joback Method
tc	909.33	K	Joback Method
tf	418.74	K	Joback Method
vc	0.853	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	620.97	J/molxK	716.00	Joback Method
cpg	634.74	J/molxK	748.22	Joback Method
cpg	647.58	J/molxK	780.44	Joback Method
cpg	659.52	J/molxK	812.66	Joback Method
cpg	670.61	J/molxK	844.89	Joback Method
cpg	680.87	J/molxK	877.11	Joback Method
cpg	690.33	J/molxK	909.33	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U389740&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389740&amp;Units=SI</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>hvp:</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>rinp:</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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