

# Succinic acid, pentadecyl 3,4,5-trifluorobenzyl ester

Inchi:	InChI=1S/C26H39F3O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-17-32-24(30)15-16-25(31)33
InchiKey:	KFSIBSMNLUVKJU-UHFFFAOYSA-N
Formula:	C26H39F3O4
SMILES:	CCCCCCCCCCCCCOC(=O)CCC(=O)OCc1cc(F)c(F)c(F)c1
Mol. weight [g/mol]:	472.58

## Physical Properties

Property code	Value	Unit	Source
gf	-800.71	kJ/mol	Joback Method
hf	-1455.78	kJ/mol	Joback Method
hfus	70.78	kJ/mol	Joback Method
hvap	93.59	kJ/mol	Joback Method
log10ws	-9.02		Crippen Method
logp	7.562		Crippen Method
mcvol	373.630	ml/mol	McGowan Method
pc	830.02	kPa	Joback Method
rinpol	2970.00		NIST Webbook
rinpol	2970.00		NIST Webbook
tb	986.29	K	Joback Method
tc	1214.66	K	Joback Method
tf	592.85	K	Joback Method
vc	1.486	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1262.84	J/mol×K	986.29	Joback Method
cpg	1280.22	J/mol×K	1024.35	Joback Method
cpg	1295.89	J/mol×K	1062.41	Joback Method
cpg	1309.92	J/mol×K	1100.47	Joback Method
cpg	1322.34	J/mol×K	1138.54	Joback Method
cpg	1333.20	J/mol×K	1176.60	Joback Method
cpg	1342.54	J/mol×K	1214.66	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=U382199&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382199&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>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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