

# Succinic acid, pentadecyl 2-(trifluoromethyl)benzyl ester

<b>Inchi:</b>	InChI=1S/C27H41F3O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-16-21-33-25(31)19-20-26(32)34
<b>InchiKey:</b>	RHNMJKCJLKLYXTD-UHFFFAOYSA-N
<b>Formula:</b>	C27H41F3O4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CCC(=O)OCc1ccccc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	486.61

## Physical Properties

Property code	Value	Unit	Source
gf	-770.19	kJ/mol	Joback Method
hf	-1462.23	kJ/mol	Joback Method
hfus	66.74	kJ/mol	Joback Method
hvap	93.20	kJ/mol	Joback Method
log10ws	-9.13		Crippen Method
logp	8.163		Crippen Method
mcvol	387.720	ml/mol	McGowan Method
pc	807.99	kPa	Joback Method
tb	995.98	K	Joback Method
tc	1225.49	K	Joback Method
tf	581.50	K	Joback Method
vc	1.530	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1326.49	J/molxK	995.98	Joback Method
cpg	1344.33	J/molxK	1034.23	Joback Method
cpg	1360.62	J/molxK	1072.48	Joback Method
cpg	1375.46	J/molxK	1110.73	Joback Method
cpg	1388.94	J/molxK	1148.98	Joback Method
cpg	1401.15	J/molxK	1187.23	Joback Method
cpg	1412.18	J/molxK	1225.49	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=U381664&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381664&amp;Units=SI</a>
<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>

# 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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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