

# Succinic acid, octadecyl 2,3,6-trifluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C29H45F3O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-22-35-27(33)20-21
<b>InchiKey:</b>	CODFIVFUVQDGBN-UHFFFAOYSA-N
<b>Formula:</b>	C29H45F3O4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCOC(=O)CCC(=O)OCc1c(F)ccc(F)c1F
<b>Mol. weight [g/mol]:</b>	514.66

## Physical Properties

Property code	Value	Unit	Source
gf	-775.45	kJ/mol	Joback Method
hf	-1517.70	kJ/mol	Joback Method
hfus	78.55	kJ/mol	Joback Method
hvap	100.27	kJ/mol	Joback Method
log10ws	-10.28		Crippen Method
logp	8.732		Crippen Method
mvol	415.900	ml/mol	McGowan Method
pc	707.71	kPa	Joback Method
rinpol	3312.00		NIST Webbook
rinpol	3312.00		NIST Webbook
tb	1054.93	K	Joback Method
tc	1317.17	K	Joback Method
tf	626.66	K	Joback Method
vc	1.653	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1451.16	J/molxK	1054.93	Joback Method
cpg	1470.02	J/molxK	1098.64	Joback Method
cpg	1486.59	J/molxK	1142.34	Joback Method
cpg	1500.94	J/molxK	1186.05	Joback Method
cpg	1513.18	J/molxK	1229.76	Joback Method
cpg	1523.38	J/molxK	1273.47	Joback Method
cpg	1531.64	J/molxK	1317.17	Joback Method

# Sources

<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=U381189&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381189&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>hvap:</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>rinpola:</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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