

# Succinic acid, 2-fluoro-6-(trifluoromethyl)benzyl tetradecyl ester

Inchi:  
InchiKey:

InChI=1S/C26H38F4O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-19-33-24(31)17-18-25(32)34-20

JLPDECIPOXYQCL-UHFFFAOYSA-N

Formula:

C26H38F4O4

SMILES:

CCCCCCCCCCCCCOC(=O)CCC(=O)OCc1c(F)cccc1C(F)(F)F

Mol. weight [g/mol]:

490.57

## Physical Properties

Property code	Value	Unit	Source
gf	-983.05	kJ/mol	Joback Method
hf	-1649.17	kJ/mol	Joback Method
hfus	66.84	kJ/mol	Joback Method
hvap	90.82	kJ/mol	Joback Method
log10ws	-9.05		Crippen Method
logp	7.912		Crippen Method
mcvol	375.400	ml/mol	McGowan Method
pc	824.79	kPa	Joback Method
rinpol	2907.00		NIST Webbook
rinpol	2907.00		NIST Webbook
tb	977.35	K	Joback Method
tc	1202.25	K	Joback Method
tf	583.34	K	Joback Method
vc	1.492	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1270.25	J/molxK	977.35	Joback Method
cpg	1287.53	J/molxK	1014.83	Joback Method
cpg	1303.31	J/molxK	1052.32	Joback Method
cpg	1317.67	J/molxK	1089.80	Joback Method
cpg	1330.68	J/molxK	1127.28	Joback Method
cpg	1342.42	J/molxK	1164.76	Joback Method
cpg	1352.96	J/molxK	1202.25	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=U381644&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381644&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>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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