

# Succinic acid, heptyl 2,4,5-trifluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C18H23F3O4/c1-2-3-4-5-6-9-24-17(22)7-8-18(23)25-12-13-10-15(20)16(21)11
<b>InchiKey:</b>	XTGGPNVOVFZBBV-UHFFFAOYSA-N
<b>Formula:</b>	C18H23F3O4
<b>SMILES:</b>	CCCCCCCOC(=O)CCC(=O)OCc1cc(F)c(F)cc1F
<b>Mol. weight [g/mol]:</b>	360.37

## Physical Properties

Property code	Value	Unit	Source
gf	-868.07	kJ/mol	Joback Method
hf	-1290.66	kJ/mol	Joback Method
hfus	50.06	kJ/mol	Joback Method
hvap	75.78	kJ/mol	Joback Method
log10ws	-5.68		Crippen Method
logp	4.441		Crippen Method
mcvol	260.910	ml/mol	McGowan Method
pc	1368.70	kPa	Joback Method
rinpol	2169.00		NIST Webbook
rinpol	2169.00		NIST Webbook
tb	803.25	K	Joback Method
tc	991.53	K	Joback Method
tf	502.69	K	Joback Method
vc	1.038	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	782.37	J/molxK	803.25	Joback Method
cpg	796.60	J/molxK	834.63	Joback Method
cpg	809.91	J/molxK	866.01	Joback Method
cpg	822.31	J/molxK	897.39	Joback Method
cpg	833.80	J/molxK	928.77	Joback Method
cpg	844.39	J/molxK	960.15	Joback Method
cpg	854.10	J/molxK	991.53	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=U382223&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382223&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

Latest version available from:

<https://www.chemeo.com/cid/121-950-2/Succinic-acid-heptyl-2-4-5-trifluorobenzyl-ester.pdf>

Generated by Cheméo on 2024-04-29 19:43:07.833066486 +0000 UTC m=+16709036.753643801.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.