

# Succinic acid, heptadecyl 2,2,3,3,4,4,4-heptafluorobutyl ester

**Inchi:** InChI=1S/C25H41F7O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-19-35-21(33)17-18-22  
**InchiKey:** DKAIMPVXGQFCBY-UHFFFAOYSA-N  
**Formula:** C25H41F7O4  
**SMILES:** CCCCCCCCCCCCCCCCCOC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)F  
**Mol. weight [g/mol]:** 538.58

## Physical Properties

Property code	Value	Unit	Source
gf	-1663.37	kJ/mol	Joback Method
hf	-2447.95	kJ/mol	Joback Method
hfus	65.40	kJ/mol	Joback Method
hvap	79.95	kJ/mol	Joback Method
log10ws	-9.30		Crippen Method
logp	8.557		Crippen Method
mvol	390.380	ml/mol	McGowan Method
pc	698.39	kPa	Joback Method
rinpol	2520.00		NIST Webbook
rinpol	2520.00		NIST Webbook
tb	909.18	K	Joback Method
tc	1126.36	K	Joback Method
tf	527.22	K	Joback Method
vc	1.577	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1330.02	J/mol×K	909.18	Joback Method
cpg	1350.20	J/mol×K	945.38	Joback Method
cpg	1368.98	J/mol×K	981.57	Joback Method
cpg	1386.48	J/mol×K	1017.77	Joback Method
cpg	1402.81	J/mol×K	1053.97	Joback Method
cpg	1418.10	J/mol×K	1090.17	Joback Method
cpg	1432.46	J/mol×K	1126.36	Joback Method

# Sources

<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>
<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=U382364&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382364&amp;Units=SI</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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