

# Succinic acid, naphth-2-ylmethyl 2,2,3,4,4,4-hexafluorobutyl ester

<b>Inchi:</b>	InChI=1S/C19H16F6O4/c20-17(19(23,24)25)18(21,22)11-29-16(27)8-7-15(26)28-10-12-5
<b>InchiKey:</b>	XMZFDZHTPKLRV-UHFFFAOYSA-N
<b>Formula:</b>	C19H16F6O4
<b>SMILES:</b>	O=C(CCC(=O)OCC(F)(F)C(F)C(F)(F)F)OCc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	422.32

## Physical Properties

Property code	Value	Unit	Source
gf	-1314.93	kJ/mol	Joback Method
hf	-1708.40	kJ/mol	Joback Method
hfus	41.34	kJ/mol	Joback Method
hvap	72.90	kJ/mol	Joback Method
log10ws	-6.17		Crippen Method
logp	4.742		Crippen Method
mvol	260.850	ml/mol	McGowan Method
pc	1464.61	kPa	Joback Method
rinpol	2413.00		NIST Webbook
rinpol	2413.00		NIST Webbook
tb	826.06	K	Joback Method
tc	1024.02	K	Joback Method
tf	513.23	K	Joback Method
vc	1.042	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	793.77	J/mol×K	826.06	Joback Method
cpg	805.79	J/mol×K	859.05	Joback Method
cpg	816.94	J/mol×K	892.05	Joback Method
cpg	827.27	J/mol×K	925.04	Joback Method
cpg	836.87	J/mol×K	958.03	Joback Method
cpg	845.82	J/mol×K	991.02	Joback Method
cpg	854.17	J/mol×K	1024.02	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=U390816&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390816&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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