

# Succinic acid, nonyl 2,2,2-trifluoroethyl ester

<b>Inchi:</b>	InChI=1S/C15H25F3O4/c1-2-3-4-5-6-7-8-11-21-13(19)9-10-14(20)22-12-15(16,17)18/h2
<b>InchiKey:</b>	GPIITBDWXVTVRU-UHFFFAOYSA-N
<b>Formula:</b>	C15H25F3O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCC(=O)OCC(F)(F)F
<b>Mol. weight [g/mol]:</b>	326.35

## Physical Properties

Property code	Value	Unit	Source
gf	-974.01	kJ/mol	Joback Method
hf	-1439.61	kJ/mol	Joback Method
hfus	42.01	kJ/mol	Joback Method
hvap	63.55	kJ/mol	Joback Method
log10ws	-4.49		Crippen Method
logp	4.166		Crippen Method
mvol	242.400	ml/mol	McGowan Method
pc	1390.22	kPa	Joback Method
rinpol	1730.00		NIST Webbook
rinpol	1730.00		NIST Webbook
tb	689.76	K	Joback Method
tc	857.37	K	Joback Method
tf	407.32	K	Joback Method
vc	0.967	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	703.17	J/mol×K	689.76	Joback Method
cpg	718.18	J/mol×K	717.69	Joback Method
cpg	732.44	J/mol×K	745.63	Joback Method
cpg	745.98	J/mol×K	773.56	Joback Method
cpg	758.81	J/mol×K	801.50	Joback Method
cpg	770.94	J/mol×K	829.43	Joback Method
cpg	782.39	J/mol×K	857.37	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=U382467&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382467&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

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