

# Succinic acid, 2,2,3,3-tetrafluoropropyl 4-methylpent-2-yl ester

Inchi:	InChI=1S/C13H20F4O4/c1-8(2)6-9(3)21-11(19)5-4-10(18)20-7-13(16,17)12(14)15/h8-9,1
InchiKey:	GEODVOPZSUCSPA-UHFFFAOYSA-N
Formula:	C13H20F4O4
SMILES:	CC(C)CC(C)OC(=O)CCC(=O)OCC(F)(F)C(F)F
Mol. weight [g/mol]:	316.29

## Physical Properties

Property code	Value	Unit	Source
gf	-1192.98	kJ/mol	Joback Method
hf	-1610.28	kJ/mol	Joback Method
hfus	29.34	kJ/mol	Joback Method
hvap	57.12	kJ/mol	Joback Method
log10ws	-3.49		Crippen Method
logp	3.188		Crippen Method
mvol	215.990	ml/mol	McGowan Method
pc	1586.01	kPa	Joback Method
rinpol	1419.00		NIST Webbook
rinpol	1419.00		NIST Webbook
tb	641.95	K	Joback Method
tc	809.65	K	Joback Method
tf	340.37	K	Joback Method
vc	0.855	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	604.46	J/mol×K	641.95	Joback Method
cpg	618.64	J/mol×K	669.90	Joback Method
cpg	632.11	J/mol×K	697.85	Joback Method
cpg	644.88	J/mol×K	725.80	Joback Method
cpg	656.97	J/mol×K	753.75	Joback Method
cpg	668.40	J/mol×K	781.70	Joback Method
cpg	679.18	J/mol×K	809.65	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U390421&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390421&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>h vap:</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>r in pol:</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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