

# Hexanoic acid, 3,5,5-trimethyl-, 2,2,3,3-tetrafluoropropyl ester

Inchi:	InChI=1S/C12H20F4O2/c1-8(6-11(2,3)4)5-9(17)18-7-12(15,16)10(13)14/h8,10H,5-7H2,1
InchiKey:	NSRCNLBPDSLHSI-UHFFFAOYSA-N
Formula:	C12H20F4O2
SMILES:	CC(CC(=O)OCC(F)(F)C(F)F)CC(C)(C)C
Mol. weight [g/mol]:	272.28

## Physical Properties

Property code	Value	Unit	Source
gf	-962.20	kJ/mol	Joback Method
hf	-1348.31	kJ/mol	Joback Method
hfus	20.07	kJ/mol	Joback Method
hvap	44.83	kJ/mol	Joback Method
log10ws	-3.85		Crippen Method
logp	3.892		Crippen Method
mcvol	194.460	ml/mol	McGowan Method
pc	1665.97	kPa	Joback Method
rinsol	1174.00		NIST Webbook
tb	539.99	K	Joback Method
tc	704.37	K	Joback Method
tf	274.36	K	Joback Method
vc	0.769	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	502.96	J/mol×K	539.99	Joback Method
cpg	518.42	J/mol×K	567.39	Joback Method
cpg	533.11	J/mol×K	594.78	Joback Method
cpg	547.04	J/mol×K	622.18	Joback Method
cpg	560.26	J/mol×K	649.58	Joback Method
cpg	572.78	J/mol×K	676.97	Joback Method
cpg	584.64	J/mol×K	704.37	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406817&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406817&amp;Units=SI</a>
<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>

# 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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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