

# Hexanoic acid, 3,5,5-trimethyl-, 1,1,1-trifluoroprop-2-yl ester

Inchi:	InChI=1S/C12H21F3O2/c1-8(7-11(3,4)5)6-10(16)17-9(2)12(13,14)15/h8-9H,6-7H2,1-5H3
InchiKey:	UPNCIIDAFFWSOK-UHFFFAOYSA-N
Formula:	C12H21F3O2
SMILES:	CC(CC(=O)OC(C)C(F)(F)F)CC(C)(C)C
Mol. weight [g/mol]:	254.29

## Physical Properties

Property code	Value	Unit	Source
gf	-767.39	kJ/mol	Joback Method
hf	-1152.20	kJ/mol	Joback Method
hfus	16.99	kJ/mol	Joback Method
hvap	45.64	kJ/mol	Joback Method
log10ws	-4.00		Crippen Method
logp	3.943		Crippen Method
mcvol	192.690	ml/mol	McGowan Method
pc	1728.90	kPa	Joback Method
rinpola	1092.00		NIST Webbook
rinpola	1092.00		NIST Webbook
tb	540.72	K	Joback Method
tc	712.17	K	Joback Method
tf	273.77	K	Joback Method
vc	0.751	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	494.83	J/molxK	540.72	Joback Method
cpg	510.95	J/molxK	569.30	Joback Method
cpg	526.24	J/molxK	597.87	Joback Method
cpg	540.74	J/molxK	626.45	Joback Method
cpg	554.46	J/molxK	655.02	Joback Method
cpg	567.44	J/molxK	683.60	Joback Method
cpg	579.72	J/molxK	712.17	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406816&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406816&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>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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