

# 2,3,4-Trifluorobenzoic acid, 2-methyloct-5-yn-4-yl ester

Inchi:	InChI=1S/C16H17F3O2/c1-4-5-6-11(9-10(2)3)21-16(20)12-7-8-13(17)15(19)14(12)18/h7
InchiKey:	YMDLHXAODPRPKL-UHFFFAOYSA-N
Formula:	C16H17F3O2
SMILES:	CCC#CC(CC(C)C)OC(=O)c1ccc(F)c(F)c1F
Mol. weight [g/mol]:	298.30

## Physical Properties

Property code	Value	Unit	Source
gf	-453.07	kJ/mol	Joback Method
hf	-742.84	kJ/mol	Joback Method
hfus	38.17	kJ/mol	Joback Method
hvap	63.55	kJ/mol	Joback Method
log10ws	-5.72		Crippen Method
logp	4.089		Crippen Method
mcvol	216.690	ml/mol	McGowan Method
pc	1763.93	kPa	Joback Method
rinpol	1698.40		NIST Webbook
rinpol	1698.40		NIST Webbook
tb	689.32	K	Joback Method
tc	889.18	K	Joback Method
tf	484.09	K	Joback Method
vc	0.852	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	579.49	J/mol×K	689.32	Joback Method
cpg	594.25	J/mol×K	722.63	Joback Method
cpg	608.16	J/mol×K	755.94	Joback Method
cpg	621.26	J/mol×K	789.25	Joback Method
cpg	633.54	J/mol×K	822.56	Joback Method
cpg	645.02	J/mol×K	855.87	Joback Method
cpg	655.72	J/mol×K	889.18	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U292556&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292556&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.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>

# 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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