

# 4-(Trifluoromethyl)benzoic acid, 3-methylbut-2-enyl ester

<b>Inchi:</b>	InChI=1S/C13H13F3O2/c1-9(2)7-8-18-12(17)10-3-5-11(6-4-10)13(14,15)16/h3-7H,8H2,1
<b>InchiKey:</b>	YKNOOVRRCQWZGKB-UHFFFAOYSA-N
<b>Formula:</b>	C13H13F3O2
<b>SMILES:</b>	CC(C)=CCOC(=O)c1ccc(C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	258.24

## Physical Properties

Property code	Value	Unit	Source
gf	-582.48	kJ/mol	Joback Method
hf	-821.04	kJ/mol	Joback Method
hfus	26.58	kJ/mol	Joback Method
hvap	52.92	kJ/mol	Joback Method
log10ws	-4.35		Crippen Method
logp	3.828		Crippen Method
mcvol	178.720	ml/mol	McGowan Method
pc	2137.41	kPa	Joback Method
rinpol	1430.00		NIST Webbook
rinpol	1430.00		NIST Webbook
tb	603.41	K	Joback Method
tc	802.42	K	Joback Method
tf	332.52	K	Joback Method
vc	0.704	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	450.07	J/mol×K	603.41	Joback Method
cpg	463.97	J/mol×K	636.58	Joback Method
cpg	476.97	J/mol×K	669.75	Joback Method
cpg	489.12	J/mol×K	702.92	Joback Method
cpg	500.47	J/mol×K	736.09	Joback Method
cpg	511.06	J/mol×K	769.25	Joback Method
cpg	520.95	J/mol×K	802.42	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.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=U299439&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299439&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>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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