

# Ether, octyl 2,2,2-trifluoro-1-methylethyl, ( $\pm$ )-

<b>Inchi:</b>	InChI=1S/C11H21F3O/c1-3-4-5-6-7-8-9-15-10(2)11(12,13)14/h10H,3-9H2,1-2H3
<b>InchiKey:</b>	UBUIQVZDLONGTK-UHFFFAOYSA-N
<b>Formula:</b>	C11H21F3O
<b>SMILES:</b>	CCCCCCCCOC(C)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	226.28
<b>CAS:</b>	3540-04-3

## Physical Properties

Property code	Value	Unit	Source
gf	-647.29	kJ/mol	Joback Method
hf	-1004.95	kJ/mol	Joback Method
hfus	23.74	kJ/mol	Joback Method
hvap	38.36	kJ/mol	Joback Method
log10ws	-4.29		Crippen Method
logp	4.314		Crippen Method
mcvol	177.030	ml/mol	McGowan Method
pc	1737.56	kPa	Joback Method
tb	467.64	K	Joback Method
tc	619.47	K	Joback Method
tf	225.15	K	Joback Method
vc	0.707	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	414.82	J/molxK	467.64	Joback Method
cpg	429.95	J/molxK	492.94	Joback Method
cpg	444.49	J/molxK	518.25	Joback Method
cpg	458.46	J/molxK	543.55	Joback Method
cpg	471.86	J/molxK	568.86	Joback Method
cpg	484.72	J/molxK	594.16	Joback Method
cpg	497.05	J/molxK	619.47	Joback Method

# Sources

<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=C3540043&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3540043&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>

# 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>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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