

# (1,1,2,2-tetrafluoroethoxy)benzene

<b>Inchi:</b>	InChI=1S/C8H6F4O/c9-7(10)8(11,12)13-6-4-2-1-3-5-6/h1-5,7H
<b>InchiKey:</b>	GRDIVJPQARIBNZ-UHFFFAOYSA-N
<b>Formula:</b>	C8H6F4O
<b>SMILES:</b>	FC(F)C(F)(F)Oc1ccccc1
<b>Mol. weight [g/mol]:</b>	194.13
<b>CAS:</b>	350-57-2

## Physical Properties

Property code	Value	Unit	Source
gf	-754.95	kJ/mol	Joback Method
hf	-902.61	kJ/mol	Joback Method
hfus	13.09	kJ/mol	Joback Method
hvap	33.14	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	2.923		Crippen Method
mcvol	112.770	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
tb	424.95	K	Joback Method
tc	607.74	K	Joback Method
tf	218.35	K	Joback Method
vc	0.449	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	233.70	J/molxK	424.95	Joback Method
cpg	245.38	J/molxK	455.42	Joback Method
cpg	256.37	J/molxK	485.88	Joback Method
cpg	266.69	J/molxK	516.35	Joback Method
cpg	276.39	J/molxK	546.81	Joback Method
cpg	285.47	J/molxK	577.28	Joback Method
cpg	293.97	J/molxK	607.74	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C350572&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C350572&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>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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