

# 2,4-Difluoroanisole

<b>Other names:</b>	Benzene, 2,4-difluoro-1-methoxy-
<b>Inchi:</b>	InChI=1S/C7H6F2O/c1-10-7-3-2-5(8)4-6(7)9/h2-4H,1H3
<b>InchiKey:</b>	CRMJLJFDPNJIQA-UHFFFAOYSA-N
<b>Formula:</b>	C7H6F2O
<b>SMILES:</b>	COc1ccc(F)cc1F
<b>Mol. weight [g/mol]:</b>	144.12
<b>CAS:</b>	452-10-8

## Physical Properties

Property code	Value	Unit	Source
gf	-393.41	kJ/mol	Joback Method
hf	-498.66	kJ/mol	Joback Method
hfus	14.50	kJ/mol	Joback Method
hvap	35.55	kJ/mol	Joback Method
log10ws	-2.25		Crippen Method
logp	1.973		Crippen Method
mcvol	95.140	ml/mol	McGowan Method
pc	3476.55	kPa	Joback Method
tb	424.00	K	NIST Webbook
tc	608.25	K	Joback Method
tf	243.52	K	Joback Method
vc	0.373	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	178.52	J/molxK	417.16	Joback Method
cpg	187.48	J/molxK	449.01	Joback Method
cpg	196.09	J/molxK	480.86	Joback Method
cpg	204.36	J/molxK	512.71	Joback Method
cpg	212.29	J/molxK	544.55	Joback Method
cpg	219.87	J/molxK	576.40	Joback Method
cpg	227.11	J/molxK	608.25	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	326.20	K	2.40	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C452108&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C452108&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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