

# Bicyclo[4.1.0]hepta-1,3,5-triene, 7,7-difluoro-

<b>Other names:</b>	1,1-Difluoro-cyclopropabenzene
<b>Inchi:</b>	InChI=1S/C7H4F2/c8-7(9)5-3-1-2-4-6(5)7/h1-4H
<b>InchiKey:</b>	QQESEAYTNOTARV-UHFFFAOYSA-N
<b>Formula:</b>	C7H4F2
<b>SMILES:</b>	FC1(F)c2ccccc21
<b>Mol. weight [g/mol]:</b>	126.10
<b>CAS:</b>	18238-55-6

## Physical Properties

Property code	Value	Unit	Source
gf	-199.32	kJ/mol	Joback Method
hf	-254.61	kJ/mol	Joback Method
hfus	9.73	kJ/mol	Joback Method
hvap	30.90	kJ/mol	Joback Method
ie	10.10	eV	NIST Webbook
log10ws	-2.19		Crippen Method
logp	2.140		Crippen Method
mcvol	78.410	ml/mol	McGowan Method
pc	4222.04	kPa	Joback Method
tb	388.20	K	Joback Method
tc	587.28	K	Joback Method
tf	257.65	K	Joback Method
vc	0.327	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	144.40	J/molxK	388.20	Joback Method
cpg	154.71	J/molxK	421.38	Joback Method
cpg	163.90	J/molxK	454.56	Joback Method
cpg	172.06	J/molxK	487.74	Joback Method
cpg	179.33	J/molxK	520.92	Joback Method
cpg	185.81	J/molxK	554.10	Joback Method
cpg	191.64	J/molxK	587.28	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C18238556&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18238556&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>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mvol:</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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