

# CF3C«equiv»CC«equiv»CCF3

<b>Other names:</b>	2,4-Hexadiyne, 1,1,1,6,6,6-hexafluoro- 2,4-Hexadiyne, hexafluoro- Perfluorohexa-2,4-diyne Hexafluoro-2,4-hexadiyne Hexafluorohexa-2,4-diyne
<b>Inchi:</b>	InChI=1S/C6F6/c7-5(8,9)3-1-2-4-6(10,11)12
<b>InchiKey:</b>	IUMBVSOABSWHBN-UHFFFAOYSA-N
<b>Formula:</b>	C6F6
<b>SMILES:</b>	FC(F)(F)C#CC#CC(F)(F)F
<b>Mol. weight [g/mol]:</b>	186.05
<b>CAS:</b>	10524-09-1

## Physical Properties

Property code	Value	Unit	Source
gf	-757.94	kJ/mol	Joback Method
hf	-816.73	kJ/mol	Joback Method
hfus	21.19	kJ/mol	Joback Method
hvap	25.76	kJ/mol	Joback Method
ie	11.50 ± 0.10	eV	NIST Webbook
ie	10.99 ± 0.01	eV	NIST Webbook
log10ws	-3.25		Crippen Method
logp	2.118		Crippen Method
mvol	88.820	ml/mol	McGowan Method
pc	3435.91	kPa	Joback Method
tb	343.84	K	Joback Method
tc	520.04	K	Joback Method
tf	377.96	K	Joback Method
vc	0.382	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	166.99	J/mol×K	343.84	Joback Method
cpg	174.93	J/mol×K	373.21	Joback Method

cpg	182.28	J/mol×K	402.57	Joback Method
cpg	189.07	J/mol×K	431.94	Joback Method
cpg	195.33	J/mol×K	461.31	Joback Method
cpg	201.09	J/mol×K	490.68	Joback Method
cpg	206.38	J/mol×K	520.04	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=C10524091&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10524091&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>hvap:</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>mcvol:</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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