

# 1-Propyne, 3,3'-oxybis-

<b>Other names:</b>	Dipropargyl ether 2-Propynyl ether Dipropargyl oxide Propargyl ether (HC«equiv»CCH2)2O Di(2-propynyl) ether Bis(2-propynyl) ether
<b>Inchi:</b>	InChI=1S/C6H6O/c1-3-5-7-6-4-2/h1-2H,5-6H2
<b>InchiKey:</b>	HRDCVMSNCBAMAM-UHFFFAOYSA-N
<b>Formula:</b>	C6H6O
<b>SMILES:</b>	C#CCOCC#C
<b>Mol. weight [g/mol]:</b>	94.11
<b>CAS:</b>	6921-27-3

## Physical Properties

Property code	Value	Unit	Source
affp	783.90	kJ/mol	NIST Webbook
basg	756.50	kJ/mol	NIST Webbook
gf	340.78	kJ/mol	Joback Method
hf	284.41	kJ/mol	Joback Method
hfus	18.43	kJ/mol	Joback Method
hvap	31.08	kJ/mol	Joback Method
log10ws	-1.01		Crippen Method
logp	0.269		Crippen Method
mcvol	84.070	ml/mol	McGowan Method
pc	4356.87	kPa	Joback Method
tb	339.34	K	Joback Method
tc	528.84	K	Joback Method
tf	273.55	K	Joback Method
vc	0.314	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	140.55	J/mol×K	339.34	Joback Method
cpg	147.14	J/mol×K	370.92	Joback Method
cpg	153.45	J/mol×K	402.51	Joback Method
cpg	159.50	J/mol×K	434.09	Joback Method
cpg	165.29	J/mol×K	465.68	Joback Method
cpg	170.83	J/mol×K	497.26	Joback Method
cpg	176.13	J/mol×K	528.84	Joback Method

## Sources

<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=C6921273&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6921273&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>

## Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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