

# 2-Methylphenylacetylene

<b>Other names:</b>	Benzene,1-ethynyl-2-methyl-
<b>Inchi:</b>	InChI=1S/C9H8/c1-3-9-7-5-4-6-8(9)2/h1,4-7H,2H3
<b>InchiKey:</b>	MYBSUWNEMXUTAX-UHFFFAOYSA-N
<b>Formula:</b>	C9H8
<b>SMILES:</b>	C#Cc1ccccc1C
<b>Mol. weight [g/mol]:</b>	116.16
<b>CAS:</b>	766-47-2

## Physical Properties

Property code	Value	Unit	Source
gf	350.75	kJ/mol	Joback Method
hf	287.87	kJ/mol	Joback Method
hfus	15.69	kJ/mol	Joback Method
hvap	38.42	kJ/mol	Joback Method
ie	8.61 ± 0.02	eV	NIST Webbook
ie	8.90	eV	NIST Webbook
log10ws	-2.65		Crippen Method
logp	1.976		Crippen Method
mcvol	105.310	ml/mol	McGowan Method
pc	3819.82	kPa	Joback Method
tb	427.10	K	Joback Method
tc	652.10	K	Joback Method
tf	277.10	K	Joback Method
vc	0.394	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	187.73	J/molxK	427.10	Joback Method
cpg	199.55	J/molxK	464.60	Joback Method
cpg	210.63	J/molxK	502.10	Joback Method
cpg	221.00	J/molxK	539.60	Joback Method
cpg	230.69	J/molxK	577.10	Joback Method
cpg	239.74	J/molxK	614.60	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C766472&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C766472&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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