

# Benzene, 1,2-propadienyl-

<b>Other names:</b>	Benzene, propadienyl- Phenylallene Phenylpropadiene 1,2-Propadiene, 1-phenyl-
<b>Inchi:</b>	InChI=1S/C9H8/c1-2-6-9-7-4-3-5-8-9/h3-8H,1H2
<b>InchiKey:</b>	WEHMXWJFCCNXHJ-UHFFFAOYSA-N
<b>Formula:</b>	C9H8
<b>SMILES:</b>	C=C=Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	116.16
<b>CAS:</b>	2327-99-3

## Physical Properties

Property code	Value	Unit	Source
gf	353.43	kJ/mol	Joback Method
hf	295.65	kJ/mol	Joback Method
hfus	13.96	kJ/mol	Joback Method
hvap	37.67	kJ/mol	Joback Method
ie	8.29	eV	NIST Webbook
log10ws	-2.59		Crippen Method
logp	2.485		Crippen Method
mcpvol	105.310	ml/mol	McGowan Method
pc	3824.55	kPa	Joback Method
tb	431.95	K	Joback Method
tc	657.97	K	Joback Method
tf	222.36	K	Joback Method
vc	0.393	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	187.44	J/molxK	431.95	Joback Method
cpg	199.77	J/molxK	469.62	Joback Method
cpg	211.37	J/molxK	507.29	Joback Method
cpg	222.27	J/molxK	544.96	Joback Method

cpg	232.50	J/mol×K	582.63	Joback Method
cpg	242.06	J/mol×K	620.30	Joback Method
cpg	251.00	J/mol×K	657.97	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=C2327993&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2327993&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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