

# Benzene, (1-methyl-1-butenyl)-

<b>Other names:</b>	2-Phenyl-2-pentene
<b>Inchi:</b>	InChI=1S/C11H14/c1-3-7-10(2)11-8-5-4-6-9-11/h4-9H,3H2,1-2H3
<b>InchiKey:</b>	PLPHXVSTHYOUJO-UHFFFAOYSA-N
<b>Formula:</b>	C11H14
<b>SMILES:</b>	CCC=C(C)c1ccccc1
<b>Mol. weight [g/mol]:</b>	146.23
<b>CAS:</b>	53172-84-2

## Physical Properties

Property code	Value	Unit	Source
gf	225.82	kJ/mol	Joback Method
hf	73.59	kJ/mol	Joback Method
hfus	17.18	kJ/mol	Joback Method
hvap	42.39	kJ/mol	Joback Method
log10ws	-3.55		Crippen Method
logp	3.500		Crippen Method
mcvol	137.790	ml/mol	McGowan Method
pc	2811.36	kPa	Joback Method
tb	481.80	K	Joback Method
tc	697.83	K	Joback Method
tf	221.11	K	Joback Method
vc	0.524	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.15	J/mol×K	481.80	Joback Method
cpg	299.13	J/mol×K	517.81	Joback Method
cpg	314.10	J/mol×K	553.81	Joback Method
cpg	328.12	J/mol×K	589.82	Joback Method
cpg	341.24	J/mol×K	625.82	Joback Method
cpg	353.51	J/mol×K	661.83	Joback Method
cpg	364.98	J/mol×K	697.83	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	363.20	K	2.10	NIST Webbook

## 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=C53172842&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C53172842&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>hvp:</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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/22-128-5/Benzene-1-methyl-1-butenyl.pdf>

Generated by Cheméo on 2024-04-19 20:48:45.894021766 +0000 UTC m=+15848974.814599081.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.