

# Benzene, 3-cyclopenten-1-yl-

<b>Inchi:</b>	InChI=1S/C11H12/c1-2-6-10(7-3-1)11-8-4-5-9-11/h1-7,11H,8-9H2
<b>InchiKey:</b>	NURGUZSYMQRPI-UHFFFAOYSA-N
<b>Formula:</b>	C11H12
<b>SMILES:</b>	C1=CCC(c2ccccc2)C1
<b>Mol. weight [g/mol]:</b>	144.21
<b>CAS:</b>	39599-89-8

## Physical Properties

Property code	Value	Unit	Source
gf	220.66	kJ/mol	Joback Method
hf	84.42	kJ/mol	Joback Method
hfus	13.44	kJ/mol	Joback Method
hvap	42.91	kJ/mol	Joback Method
log10ws	-3.24		Crippen Method
logp	3.120		Crippen Method
mcvol	126.930	ml/mol	McGowan Method
pc	3352.86	kPa	Joback Method
tb	492.20	K	Joback Method
tc	730.84	K	Joback Method
tf	251.81	K	Joback Method
vc	0.470	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	268.90	J/molxK	492.20	Joback Method
cpg	287.06	J/molxK	531.97	Joback Method
cpg	303.88	J/molxK	571.75	Joback Method
cpg	319.46	J/molxK	611.52	Joback Method
cpg	333.84	J/molxK	651.30	Joback Method
cpg	347.12	J/molxK	691.07	Joback Method
cpg	359.36	J/molxK	730.84	Joback Method
dvisc	0.0029293	Paxs	251.81	Joback Method
dvisc	0.0015273	Paxs	291.88	Joback Method

dvisc	0.0009318	Paxs	331.94	Joback Method
dvisc	0.0006324	Paxs	372.00	Joback Method
dvisc	0.0004628	Paxs	412.07	Joback Method
dvisc	0.0003579	Paxs	452.13	Joback Method
dvisc	0.0002887	Paxs	492.20	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C39599898&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C39599898&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>
<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>dvisc:</b>	Dynamic viscosity
<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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