

# Benzocycloheptatriene

<b>Other names:</b>	3,4-Benzotropilidene
<b>Inchi:</b>	InChI=1S/C11H10/c1-2-6-10-8-4-5-9-11(10)7-3-1/h1-6,8-9H,7H2
<b>InchiKey:</b>	XHVULKQHRQZNMW-UHFFFAOYSA-N
<b>Formula:</b>	C11H10
<b>SMILES:</b>	C1=CCc2ccccc2C=C1
<b>Mol. weight [g/mol]:</b>	142.20
<b>CAS:</b>	264-09-5

## Physical Properties

Property code	Value	Unit	Source
gf	248.70	kJ/mol	Joback Method
hf	151.07	kJ/mol	Joback Method
hfus	13.21	kJ/mol	Joback Method
hvap	44.17	kJ/mol	Joback Method
log10ws	-3.26		Crippen Method
logp	2.812		Crippen Method
mcvol	122.630	ml/mol	McGowan Method
pc	3572.80	kPa	Joback Method
rinpol	220.30		NIST Webbook
rinpol	220.30		NIST Webbook
tb	501.01	K	Joback Method
tc	743.67	K	Joback Method
tf	269.33	K	Joback Method
vc	0.458	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	251.65	J/molxK	501.01	Joback Method
cpg	319.18	J/molxK	703.23	Joback Method
cpg	307.83	J/molxK	662.79	Joback Method
cpg	295.48	J/molxK	622.34	Joback Method
cpg	282.05	J/molxK	581.90	Joback Method
cpg	267.47	J/molxK	541.45	Joback Method

cpg	329.61	J/molxK	743.67	Joback Method
dvisc	0.0002615	Paxs	501.01	Joback Method
dvisc	0.0003245	Paxs	462.40	Joback Method
dvisc	0.0004189	Paxs	423.78	Joback Method
dvisc	0.0005691	Paxs	385.17	Joback Method
dvisc	0.0008278	Paxs	346.56	Joback Method
dvisc	0.0013227	Paxs	307.94	Joback Method
dvisc	0.0024177	Paxs	269.33	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	379.80 ± 0.20	K	1.60	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=C264095&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C264095&amp;Units=SI</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>rinpola:</b>	Non-polar retention indices

<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

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