

# Tricyclooctabenzene

<b>Other names:</b>	Tricycloctenobenzene
<b>Inchi:</b>	InChI=1S/C24H36/c1-2-8-14-20-19(13-7-1)21-15-9-3-4-11-17-23(21)24-18-12-6-5-10-16
<b>InchiKey:</b>	VBIUHSAZNSYTGS-UHFFFAOYSA-N
<b>Formula:</b>	C24H36
<b>SMILES:</b>	C1CCCc2c(c3c(c4c2CCCCC4)CCCCC3)CC1
<b>Mol. weight [g/mol]:</b>	324.54
<b>CAS:</b>	7099-19-6

## Physical Properties

Property code	Value	Unit	Source
gf	311.94	kJ/mol	Joback Method
hf	-135.53	kJ/mol	Joback Method
hfus	22.30	kJ/mol	Joback Method
hvap	76.82	kJ/mol	Joback Method
ie	8.52 ± 0.10	eV	NIST Webbook
log10ws	-8.48		Crippen Method
logp	6.664		Crippen Method
mcvol	292.680	ml/mol	McGowan Method
pc	1535.46	kPa	Joback Method
tb	872.76	K	Joback Method
tc	1133.68	K	Joback Method
tf	484.12	K	Joback Method
vc	1.073	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	993.31	J/molxK	872.76	Joback Method
cpg	1017.89	J/molxK	916.25	Joback Method
cpg	1040.22	J/molxK	959.73	Joback Method
cpg	1060.46	J/molxK	1003.22	Joback Method
cpg	1078.74	J/molxK	1046.71	Joback Method
cpg	1095.20	J/molxK	1090.19	Joback Method
cpg	1109.98	J/molxK	1133.68	Joback Method

dvisc	0.0007788	Paxs	484.12	Joback Method
dvisc	0.0003348	Paxs	548.89	Joback Method
dvisc	0.0001720	Paxs	613.67	Joback Method
dvisc	0.0001004	Paxs	678.44	Joback Method
dvisc	0.0000643	Paxs	743.21	Joback Method
dvisc	0.0000443	Paxs	807.99	Joback Method
dvisc	0.0000322	Paxs	872.76	Joback Method

## Sources

<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=C7099196&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7099196&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>

## 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>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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